

GOVERNMENT ICT STANDARDS

ICT Human Capital and Workforce Development

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REVISION OF ICT STANDARDS

In order to keep abreast of progress in industry, ICT Standards shall be regularly reviewed. Suggestions for improvements to published standards, addressed to the Chief Executive Officer, ICT Authority, are welcome.

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FOREWORD

The ICT Authority has the mandate to set and enforce ICT standards and guidelines across all aspects of information and communication technology including Systems, Infrastructure, Processes, Human Resources and Technology for the public service. The overall purpose of this mandate is to ensure coherent and unified approach to acquisition, deployment, management and operation of ICTs across the public service in order to achieve secure, efficient, flexible, integrated and cost effective deployment and use of ICTs.

To achieve this mandate, the Authority established a standards committee to identify the relevant standard domains and oversee the standards development process. The committee consulted and researched broadly among subject matter experts to ensure conformity to acceptable international and national industry best practices as well as relevance to the Kenyan public service. The committee eventually adopted the Kenya Bureau of Standards (KEBS) format and procedure for standards development. In an engagement founded on a memorandum of understanding KEBS, participated in the development of these Standards and gave invaluable advice and guidance.

For example, the ICT Human Capital and Workforce Development Standard, which falls under the overall Government Enterprise Architecture (GEA), has therefore been prepared in accordance with KEBS standards development guidelines which are, in turn, based on the international best practices by standards development organizations including ISO.

The Authority's Directorate of Programmes and Standards has the oversight role and responsibility for management, enforcement and review of this standard. The Directorate shall carry out quarterly audits in all the Ministries, Counties, and Agencies (MCA) to determine compliance to this Standard.

The Authority shall issue a certificate for compliance to agencies upon inspection and assessment of the level of compliance to the standard. For non-compliant agencies, a report detailing the extent of the deviation and the prevailing circumstances shall be tabled before the Standards Review Board who shall advise and make recommendations to remedy the shortfall.

The ICT Authority management, conscious of the central and core role that standards play in public service integration, fostering shared services and increasing value in ICT investments, shall prioritize the adoption of this standard by all Government agencies. The Authority therefore encourages agencies to adhere to this standard in order to obtain value from their ICT investments.

Grank,

Stanley Kamanguya, OGW Chief Executive Officer

1.0 INTRODUCTION

The development of quality human resources is a pre-requisite to the promotion of a viable ICT sector. It ensures that ICT development, implementation and exploitation are an integral and a sustainable component of the Public Sector Digital Skills The ICT Human capital development standards was necessitated by the challenges faced in skill development and capacity development processes in the Kenyan Public Service. The ICT Human capital development standards have hitherto been guided by administrative circulars, human resource General letters and various guidelines issued to the Service from time to time. To address these challenges adequately and systematically, the ICT Authority has developed the ICT human and capacity development and management standards that take into account the needs and aims of all government's e-service delivery competencies, that is, public sector technical personnel, end-users and the general public. The Standards shall enhance opportunities for interoperability of public service ICT resources, ensuring uniformity in skills and competencies development, guaranteeing uniform and quality of government services everywhere and all the time.

The objectives of the standard are to:

- Promote ICT training and capacity building activities undertaken within the public service advance national goals and priorities;
- Enhance the efficiency and effectiveness of technical and non-technical government personnel to deliver public services to the citizens;
- Provide clear guidelines for efficient management of ICT trainings by agencies in the public service
- Provide ICT capability framework for delivering capacity for the job role;
- Support public sector workforce to identify and address learning and career development needs.
- Define public sector standards of performance of ICT function and support managers in determining staff performance expectations. Help standardize and enhance the quality of ICT training in government and ensure employee accountability in service delivery.
- Guide in planning of ICT training programmes to ensure equitable ICT training opportunities for all public sector workforce across different cadres
- Streamline the ICT skill development procedures and processes such as training delivery, training interventions, certification, training institutions, training records and reporting among others;
- Design mechanisms that will to ensure that budgetary resources for ICT training are aligned to defined focused on priority areas;
- Outline the mandate, expectations and responsibilities of for various stakeholders involved in public sector capacity building;
- Provide a framework for Monitoring and evaluation of ICT training;

For the government to use ICTs to increase efficiency and effectiveness in of service delivery to the public, the technical personnel must be equipped with the relevant ICT skills and competencies. These skills and competencies shall be standardized across the entire public sector to ensure quality server delivery to the citizenry. The Standards articulate the particulars of ICT capacity building across the of all stakeholders in the e-services delivery to and enhance requisite skills for utilization of government services.

2.0 SCOPE

This Standard sets out minimum requirements for Public Sector ICT Human Capital Development and Management to ensure that all public sector workforce and citizens needed in interacting with government services. The Standard also aims at enhancing the competitiveness in view of view of emerging digital technologies.

3.0 APPLICATION

This standard applies to

- a. National Government
- b. County Governments
- c. Constitutional Commissions
- d. State Corporations
- e. Autonomous and semi-Autonomous Government Agencies
- f. Institutions of learning.

4.0 NORMATIVE REFERENCES

The outlined standards contain provisions which guide definition, formulation and implementation of the proposed ICT standards. The standards are subject to revision based on preceding references in the previous edition. However, stakeholder engagements and incorporation will help ensure acceptability of the standards as anchored in the guiding references indicated below. The Kenya National Bureau of standards is hereby referenced as the national standards agency.

The following are some of the references that were used in developing the standards:

- i. Constitution of Kenya 2010
- ii. Kenya National Digital masterplan 2022-2032
- iii. Data Protection Act 2019
- iv. Computer Misuse and Cybercrimes Act, 2018
- v. SIFA: Skills Framework for the Information Age
- vi. ITIL: Information Technology Infrastructure Library
- vii. COBIT
- viii. PRINCE2
- ix. IS Security policy
- x. Kenya Public servants code of conduct policy
- xi. ISO Standards
- xii. Kenya Bureau of Standards

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this standard are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below.

Information on currently valid national and international standards can be obtained from Kenya Bureau of Standards.

5.0 DEFINITIONS

5.1 Accreditation

means the certification, usually for a particular period of time, of a person, a body or an institution as having the capacity to fulfill a particular function in the quality assurance system set up by the ICT Authority for the ICT sector.

5.2 Area of knowledge, development and certification

Identifies the essential areas of learning and understandings that underpin the area of competences described in the standard. It also indicates broad areas of learning and development and certification that an individual will consider to strengthen this specific area of competence.

5.3 Assessment

Means the process of collecting evidence of learners' work to measure and make opinion about the achievement or non-achievement of specified ICT qualification(s) in the Kenya National Qualification Standards/Framework;

5.4 Assessor

The person who is registered by the relevant Education and Training Quality Assurance Body in accordance with criteria established for this purpose by the ICT Authority Standard Body to measure the achievement of specified National Qualifications Framework standards or qualifications, and "constituent assessor" has a corresponding meaning.

5.5 Auditing

An event conducted within a specified period to evaluate some assessment of quality and conformity.

5.6 Capacity building

The process by which the individuals and governments increase its ability to perform, solve problems, define objectives, understand and deal with development needs to achieve objectives in a sustainable manner. Capacity building is of relevance to many of the core functions of governments including workforce development, equipment infrastructure acquisition, intervention management and partnership development, and It involves the population, organizations and identified and related systems. Capacity building in this standard is in the context of workforce development.

5.7 Competency

The possession of required skill, knowledge, qualification and capacity to undertake specific functions. It is Knowledge, skill, ability, or characteristic associated with high performance on a job. A desirable quality or behavior; a performance indicator. It distinguishes high performance from average and low performance.

5.8 Competency Standards

ICT competency standards are statements of the skills, knowledge and attitudes expected of personnel in responsibilities in their workplace and describe the progression of competencies.

5.9 Computer

Any electronic, magnetic, optical or other high-speed data processing device or system which performs logical, arithmetic and memory functions by manipulations of electronic, magnetic or optical impulses, and includes all input, output, processing, storage, software and communication facilities which are connected or related as a system or network;

5.10 Education and Training Quality Assurance Body

A body accredited by the Act, to monitor and audit the achievements of National Education standards or qualifications.

5.11 E-Government service

Public services provided electronically by a ministry or Government Department, local authority, or body established by or under any law or controlled or funded by the Government.

5.12 E-Learning

Learning provided electronically by an accredited institution without the learner physically attending classes at the institution

5.13 ICT Technical personnel

Technical personnel are all the government employees whose designations fall under the ICT scheme of service. These technical personnel provide internal ICT technical services within or across MCAs.

5.14 Indicators

Identifies the actions an ICT professional would normally take to perform the area of competence detailed in the relevant statement. They are specific evidence of the achievement of a defined skill or knowledge level or the competent completion of a task.

5.15 Information and Communications Technologies (ICT)

The technologies including computers, telecommunication and audio-visual systems, that enable the collection, processing, transportation and delivery of information and communication services to users.

5.16 ICT Professionals

Possess a comprehensive and up-to-date understanding of a relevant body of

Knowledge 4, demonstrate on-going commitment to professional development5, via an appropriate, combination of qualifications, certifications, work experience, non-formal and/or informal education; adhere to an agreed code of ethics/conduct6 and/or applicable regulatory practices and, through

competent practice7 deliver value for stakeholders.

5.17 Infrastructure

Integrated system of facilities used to provide one or more ICT services.

5.18 Internet

Interconnected system of networks that connects computers via the Transmission Control Protocol Internet Protocol (TCP/IP) and includes future versions thereof

5.19 IT graduate

An individual who has earned an IT degree from an accredited University

5.20 IT Practitioner

An individual actively engaged in an IT profession

5.21 IT professional

An individual who has a demonstrated mastery of an appropriate portion of the IT body of knowledge and commitment to abide by the code of ethics

5.22 IT Technician

An individual who identifies, troubleshoots and resolves computer infrastructure challenges. A Technician s possess skilled knowledge, hands-on experience and different tools to repair and maintain computer hardware, software and network/internet issues.

5.23 Job Description

A brief explanation of the responsibilities covered by the job role

5.24 Job Role

The Job Role represents the duty position an ICT professional handle in a government agency.

5.25 Learner

An individual who is participating in a learning programme with the purpose of achieving credits for standards and /or qualifications

5.26 Learning Programme

A structured set of learning offerings and related assessment and attainment requirements

5.27 Moderation

The process which ensures that assessment of the outcomes described in National Qualifications Framework standards or qualifications, is fair, valid and reliable

5.28 Monitoring

A continuous process of review of quality that can be conducted internally and/or externally against predefined key performance indicators.

5.29 National Accreditation Database

An electronic information system established at the ICT Authority to assist government institutional learner qualification framework.

5.30 Outcome

Demonstrated end-products of the learning process in this context.

5.31 People of Kenya

This standard applies to the individuals residing in Kenya. It aims to equip Kenyans with appropriate knowledge and skills to develop and use ICTs for national productivity

5.31 Profession and Professional

Profession

Possession "of special knowledge and skills in a widely recognized body of learning derived from research, education and training at a high level" as well as the possession of a Code of Ethics

Professional

A person certified by a professional body of belonging to a specific profession by having completed a required course of studies and/or practice and whose competence can usually be measured against an established set of standards.

5.32 Professional body

An organization that accredits industry professional qualifications It certifies successful completion of its requirements, and thereupon awards a license and bestows a recognized appellation. It P prescribes a mandatory code of conduct for their members and exercise political control over their membership, and have monopoly over the profession's formal education, certification, licensing, symbols.

5.33 Professional development

Focuses on improving professional competence in a specialized professional role, with the objective of enhancing personal performance and career progression opportunities. It encompasses both technical aspects (e.g. keeping abreast of latest technological trends) as well as non-technical aspects (e.g. developing better presentation skills).

5.34 Provider

A body which delivers learning programmes which culminate in specified National Qualifications Framework standards or qualifications, and manages the assessment thereof

5.35 Qualification

The formal recognition of the achievement of the required number and range of credits and other requirements at specific levels of the NQF determined by the relevant bodies registered by the ICT Authority

5.36 Quality Assurance

The process of ensuring that the degree of excellence specified is achieved

5.37 Registration

The process which ensures that the person who assesses learner competence posses the requisite criteria for the specified qualifications and registered standards and/or qualifications

5.38 Registered Assessor

Means an assessor who has met the requirements for registration as an assessor of specified NQF qualifications standards and has been registered by the ICTA under whose primary focus the standards and qualifications fall

5.39 Relevant body of knowledge

Encompasses the requirement for a broad and deep knowledge base which is up-to-date, accommodating both a common ICT body of knowledge, and pertinent specialist knowledge and skills.

5.40 Requirement

The requirement point to specific elements or key areas of competence that will result in the satisfactory performance as required in the workplace.

5.41 Standard

Conventionally, a standard is defined as an accepted or approved example or technique against which other things are judged or measured, or which sets out a set of criteria that serves as a guideline for how something should be done; accepted level and scope of attainment of proficiency. It is a reference point against which other things are judged or measured. In the handbook, the term is used to refer to concise statements that describe the key area of competency.

5.42 Training

Official and on-going educational and skill enhancement programmes within an institution designed to enhance fulfillment and work performance of employees.

5.43 Validation

The overall process by which the ICT Authority uses to assess a programme, qualification and accreditation

5.44 Verification

The process managed by the ICT Authority for externally verifying moderation processes for conformity.

6.0 Abbreviations

GWEA Government Wide Enterprise Architecture

CAATs Computer Aided Audit Techniques

CGEIT Certified in Governance of Enterprise Information Technology

CCNA Cisco Certified Network Associate
CISA Certified in Information Systems Audit
CISM Certified Information Security Manager
CUE Commission for University Education
DPM Directorate of Personnel Management

DIY Do It Yourself

GITS Government Information Technology Services

HRD Human Resource DevelopmentKSG Kenya School of GovernmentERP Enterprise Resource Planning

GHRIS Government Human Resource Information System

Information Communication Technology, Human capital Development and

management

ICF ICT Competency Framework

ICT Information and Communication Technology

ICTA Information and Communication Technology Authority

Information and Communication Technology Capacity Building literacy

ITIL Information Technology Infrastructure Library
ITSM Information Technology Service Management

(IISP) Institute of Information Security Professionals Skills Framework.

LAN Local Area Network

MCA Ministries, Counties and Agencies

MICT Ministry of Information and Communication Technology

NGOs Non-Governmental Organizations

PPP Public-Private Partnerships

SFIA Skills Framework for the Information Age

TNA Training Needs Assessment

TOT Trainer of Trainers
WAN Wide Area Network

Note: The list is not exhaustive

7.0 SUB-DOMAINS

The sub-domains of this standard are:

- a) ICT Professional in the public sector
- b) Public sector workforce
- c) Kenyan citizens
- d) Registration and Accreditation of ICT Training Institutions, Professionals and relevant bodies

8.0 GUIDING PRINCIPLES

8.1 Principles of the standard

a. Equity: There shall be equity in ICT capacity building for public sector workforce (ICT Technical, end-users) and citizens.in advancing the legal provisions on affirmative action and PWDs, the principle of equity shall reflect the aspirations of the observed groups.

The Standards will be implemented in a way such that development of competencies is cross-cutting. Requisite skills and competencies will be given to the citizenry for effective utilization of digital provisions for improved service delivery, access to government e-services and sustainability. Quality: Skill and Capacity building in ICT for public sector workforce servants and the citizenry shall be of the highest quality that meets international standards and best practices. The ICT trainings therefore, shall incorporate certifications that are global as specified in the ICT curriculum. for Value: ICT skill Capacity building will be undertaken in a manner that promotes efficiency in government service delivery, improves individual competencies and enables the citizenry to leverage available opportunities for value addition Access: ICT skill development facilities, infrastructure and opportunities shall be made accessible to all public sector workforce and the citizens. Different models of training shall be designed, developed and implemented to conform to the needs of varied learners.

Service to the people: Development of competencies shall be geared towards improving service delivery It is therefore important that the competencies are executed with a view to promoting delivery and value to the citizenry

Interoperability: The public sector shall support open standards in ICT Capacity Building for promotion of collaboration and complementary. Promotion of digital solutions and distant learning mechanisms to ensure continuous human capital development in line with government ICT adoption and improved digital space. The ICT infrastructure and platforms shall be standardized to guarantee promotion of shared services.

Personal development Special attention shall be given to personal development across cadres of staff within the public service. Each staff shall be required to possess relevant ICT skills and shall undergo ICT induction to government service upon recruitment.

9.0 REQUIREMENTS

9.1 ICT Competency for Professionals in the Public sector

ICT Competency for ICT professionals in the public sector sub domain defines the basic knowledge and skills an individual must possess at a recognized level of competence in order to perform duties as assigned in the specific ICT fields or job role including the code of conduct thereof.

- a) The Knowledge and skills in competency areas in all the standards are presented with specifics on essential areas of learning, but avoids reference to specific vendors, versions or equipment. Thus, it allows flexibility in the adoption of the standard while preserving the general requirements for competence.
- b) The sub domain covers core body of knowledge and common basic competencies that are either behavioral or technical that shall be required by all professionals. The areas of professionalism are:
- i. ICT Capacity Development
- ii. ICT/ Telecommunications Infrastructure, Planning, Design and Maintainance
- iii. Systems Development and Administration
- iv. Information Management and Security
- v. ICT Project Management
- vi. Risk Management & Business Continuity
- vii. ICT Service Management and Delivery
- viii. Change and digital transformation
- ix. Common and transferable Competencies
- x. Management of Emerging technologies.
- xi. E- Waste management.

9.1.1 ICT Infrastructure

9.1.1.1 ICT/Telecommunication infrastructure planning, designing & maintaining

This sub-discipline covers the competencies of those individuals who are involved in providing high quality customer service that includes planning, designing, installing, testing, and maintaining required telecommunication infrastructure, maintaining a safe and secure work environment; and coordinating activities with other ICT and telecommunication service providers.

9.1.1.1.1 Competence

ICT professionals in this field should be able to;

- i. Follow, under supervision, organisational strategy for ICT/technology infrastructure design and planning activities
- ii. Carry out, under supervision, customer requirements for ICT/technology infrastructure design and implementation
- iii. Maintain effective ICT infrastructure design and planning deliverables
- iv. Assist others with relevant information concerning ICT infrastructure design, planning and development assignments.

9.1.1.1.2 Certification

The professionals defined on clause 9.1.1.1 shall be trained and certified but not limited on to the following areas:

- i. Data communication
- ii. Network Architecture
- iii. Network Operating Systems
- iv. LANs and WANs management
- v. Network troubleshooting and maintenance
- vi. Network Security

9.1.1.2 ICT Network Management

This sub-discipline covers the Competencies of individuals who are involved in administering & managing information & communication technologies & network systems

9.1.1.2.1. Competence

ICT professionals in this field should be able to;

- i. Understand and explain the basics of network architecture
- ii. Understand and explain the basics of Ethernet technology
- iii. Understand and explain the basics of token ring technology
- iv. Understand and explain the basics of token bus, Fiber Distributed-Data Interface (FDDI), and wireless LAN technology
- v. Understand and explain the TCP/IP protocol
- vi. Understand and explain basic communication protocols
- vii. Identify appropriate network operating systems
- viii. Harness emerging Network architectuaral technologies

9.1.1.2.2 Certification

The professionals defined on clause 9.1.1.2 shall be trained and certified but not limited to the following certification areas:

- i. Network Architecture
- ii. Data communication
- iii. Network Operating Systems
- iv. LANs and WANs
- v. Network troubleshooting and maintenance
- vi. Network Security

9.1.2 Systems Analysis; Design, Development and Administration

9.1.2.1 Systems development

This sub-discipline covers the competencies required to develop/enhance, acquire, reuse and/or commission a range of systems elements, such as software, hardware and networking elements and interface them to produce an holistic, 'end-to-end' working IT/technology system that meets a specific business need.

9.1.2.1.1 Competence

ICT professionals in this field should be able to;

- i. Explain the fundamental concepts of computer programming
- ii. Apply the principles of data structures and algorithm development for a specific problem
- iii. Apply appropriate techniques in the stages of program development
- iv. Create program documentation and methodology in line with changing workforce
- v. Test and debug programs
- vi. Perform system patch-up; update and upgrade
- vii. Explain and undertake system retirement

9.1.2.1.2 Certification

The professionals defined on clause 9.1.2.1 shall be trained and certified but not limited to the following certification areas:

- i. Introduction to systems design and development
- ii. System life-cycle types and their rationales
- iii. Business analysis
- iv. Requirements engineering
- v. Programming and development approaches
- vi. Systems modelling and specification techniques
- vii. Quality and testing
- viii. Implementation and changeover
- ix. Evaluation and maintenance

9.1.2.2 System Analysis and Design

This sub-discipline covers the competencies required to contribute effectively to the analysis and design of a system.

9.1.2.2.1 Competence

ICT professionals in this field should be able to;

- i. Initiate a system project
- ii. Perform a detailed system investigation and analysis
- iii. Design or review and upgrade the system. computer applications
- iv. Develop system documentation

- v. Perform system quality assurance activities
- vi. Manage requests for changes

9.1.2.2.2 Certification

The professionals defined on clause 9.1.2.2 shall be trained and certified but not limited to the following certification areas:

- i) Information systems management
- ii) Organizational digital transformation
- iii) Database systems
- iv) System development methodolodies
- v) ICT Project management

9.1.2.3 System Administration

This sub-discipline covers competencies required for installation, configuration and maintenance of information systems

9.1.2.3.1 Competence

ICT professionals in this field should be able to;

- i. Understand the life cycle of an information system
- ii. Install information system
- iii. Perform software configuration and loading
- iv. Monitor and maintain the information system
- v. Manage information backup, recovery and business continuity Undertake problem-solving, processes and document outcomes
- vi. Perform software upgrades Perform general system administration tasks

9.1.2.3.2 Certification

The professionals defined on clause 9.1.2.3 shall be trained and certified but not limited to the following certification areas:

- i. Fundamentals of database management
- ii. Design , develop and manage databases. Information system security frameworks
- iii. Risk management and business continuity

9.1.3 Database Administration

This sub-discipline covers competencies requiredfor storage, management and retrieval of data in a database.

9.1.3.1 Competence

ICT professionals in this field should be able to;

- i. Apply the principles of data analysis and design
- ii. Explain the principles of Database Management Systems (DBMS)

- iii. Manage implementation of a DBMS
- iv. Operate, monitor and maintain a DBMS

9.1.3.2 Certification

The professionals defined on clause 9.1.3 shall be trained and certified but not limited to the following certification areas:

- i. Basics of databases management
- ii. Object-oriented programming
- iii. Basic skills and competences on DBMS programing tools.
- iv. Database upgrades and technology compatibility assessment.
- v. Database design and administration
- vi. Analysis anlysis and reporting.
- vii. Database integrity and security
- viii. Backup and archival technologies technologies

9.1.4 Information Management and Security

9.1.4.1 Information Management

This sub-discipline covers the competencies required for the management of data and information within and outside of an organisation. This includes the acquisition, creation, categorization, storage, transfer and disposal of data and information. It also covers the competencies required to ensure the integrity of information

9.1.4.1.1 Competence

ICT professionals in this field should be able to;

- i. Carry out specified information management activities
- ii. Document information assets
- iii. Manage the classification and categorisation of information resources
- iv. Communicate information management requirements and activities

9.1.4.1.2 Certification

The professionals defined on clause 9.1.4.1 shall be trained and certified but not limited to the following certification areas:

- i. Information resource organisation
- ii. Metadata defination
- iii. Data visualisation
- iv. Information law and ethics
- v. Information retrieval
- vi. Information technologies

9.1.4.2 Information security

This sub-discipline covers competencies required to implement and sustain a successful information security management system in an organisation.

9.1.4.2.1 Competence

ICT professionals in this field should be able to;

- i. Undertake development information security governance framework
- ii. Ensure secutity of information.
- iii. t Participate in designing of security architecture
- iv. Undertake information Security testing for compliance
- v. Assist information assurance
- vi. Promote information management operations and activities
- vii. Participate in conducting information vulnerabilities assessment Participate in information security incidences and forensics
- viii. Participate in routine information security audits and documentation

9.1.4.2.2 Certification

The professionals defined on clause 9.1.4.2 shall be trained and certified but not limited to the following certification areas:

- i. Cyber security
- ii. Network security
- iii. Forensics
- iv. IT audit
- v. IT security leadership
- vi. Application security
- vii. Information Security Governance

9.1.5 ICT Project Management

This sub-discipline covers the competencies required to plan, organize and define responsibility for the completion of an organizations' specific ICT goals.

9.1.5.1 Competence

ICT professionals in this field should be able to;

- i. Demonstrate understanding of key concepts in project management
- ii. Develop a project plan using a step-wise approach
- iii. Perform Project Costing, Scheduling and Resource Allocation
- iv. Demonstrate a clear understanding of various activities performed in ICT project environment
- v. Distinguish ICT projects from other types of projects
- vi. Provide project teams leadership.
- vii. Evaluate different types of ICT oriented contracts
- viii. Undertake Project Risk Management

9.1.5.2 Certification

The professionals defined on clause 9.1.5 shall be trained and certified but not limited to the following certification areas:

- i. CompTIA Project+
- ii. Certified Project Manager (CPM)
- iii. Associate in Project Management (APM)
- iv. Certified Associate in Project Management (CAPM)
- v. Project Management Professional (PMP)
- vi. Master Project Manager (MPM)
- vii. Professional in Project Management (PPM)
- viii. Program Management Professional (PgMP)
- ix. Agile Certified Practitioner (PMI-ACP)
- x. Certified ScrumMaster (CSM)
- xi. Projects in Controlled Environments (PRINCE2)
- xii. Any other globally acceptable project management standard

9.1.6 Risk Management & Business Continuity

This sub-discipline covers the competencies concerned with conducting and managing risk assessments on information assets, information systems and digital process control systems.

9.1.6.1 Competence

ICT professionals in this field should be able to;

- i. Participate in organization risk assessment activities. Assist in information risk management and controls
- ii. Participate in IT disaster recovery management
- iii. Undertake IT disaster recovery plans development Document specified information relating to IT disaster recovery

9.1.6.2 Certification

The professionals defined on clause 9.1.6 shall be trained and certified but not limited to the following certification areas:

- i. Risk-based audit programme
- ii. Implications of risk to an organisation
- iii. Business continuity plans development and management Business impact analysis and reporting

9.1.7 ICT Service Management and Delivery

This sub-discipline covers the competencies required to plan, implement and manage solution provision.

9.1.7.1 Competence

ICT professionals in this field should be able to;

- i. Carry out designated service operations and activities under supervision
- ii. Monitor and report on the progress of designated service operations activities
- iii. Assist in the review of service operations activities
- iv. Perform designated 'IT Service Help Desk and Incident Management' activities under supervision
- v. Monitor the effectiveness of customer satisfaction help desk support . Identify and implement improvements and work-arounds to 'Service Help Desk and Incident Management' activities
- vi. Manage and review problem management activities against business objectives and metrics
- vii. Help to identify root causes and trends from problem management activities
- viii. Carry out, under supervision, maintenance activities that apply to application management activities
- ix. Review and direct application management activities against business objectives and metrics
- x. Design, develop and manage identify improvements to application management activities
- xi. Carry out technical support activities under supervision
- xii. Document technical support activities and communication. Provide direction and approval where necessary to maintain or improve technical support activities
- xiii. Carry out routine system availability management activities

 Carry out routine capacity management activities and advise.

9.1.7.2 Certification

The professionals defined on clause 9.1.7 shall be trained and certified but not limited to the following certification areas:

- i. IT Service Management Overview
- ii. IT Infrastructure, and Cloud Computing
- iii. Internet of Things, Big Data, Smart Computing/Cities, Cognitive Computing
- iv. IT service strategy, methods, and case study
- v. IT Project / Service Management overview
- vi. IT Service team building
- vii. Soft Skills in IT Service Management

9.1.8 Change and Transformation

This sub-discipline covers the competencies required to manage the introduction of business-driven change into an organization in a way that will minimize the risks associated with it and best support the adoption of practices that will realize the benefits of change.

9.1.8.1 Competence

ICT professionals in this field should be able to;

- i. Assist in identifying requirements for a change management assignment, under direction
- ii. Gather, document and communicate information relating to a change management assignment

- iii. Assist in the design, implementation and maintenance of change management plans and assignments
- iv. Communicate change management information Any other gloabally acceptable Change Management Certifiation

9.1.8.2 Certification

The professionals defined on clause 9.1.8 shall be trained and certified but not limited to the following certification areas:

- i. Certified Change Management Professional (CCMP)
- ii. Change Management Specialist (CMS)
- iii. Certified Problem and Change Manager (CPCM)
- iv. Change Management Certificate Program from the Association for Talent Development
- v. Prosci Change Management Certification
- vi. APGM Organizational Change Management Foundation
- vii. AIM Change Management Certification
- 9.1.9 Common and transferable Competencies

This sub-discipline covers a cluster of personal and interpersonal skills needed in dealing with customers, stakeholders, and other personnel.

9.1.9.1 Competence

ICT professionals should be able to;

- i. Communicate effectively
- ii. Exhibit qualities of a good team player
- iii. Plan and manage time effectively
- iv. Demonstrate basic problem-solving skills and appropriately apply proven solutions
- v. Initiate continuous professional development
- vi. Explain current business environment and infrastructure
- vii. Advocate data security
- viii. Identify the important security and legal issues associated with using the computers

9.1.9.2 Certification

The professionals defined on clause 9.1.9 shall be trained and certified but not limited to the following certification areas:

- i. Management and Leadership
- ii. Communication Management
- iii. Professional Ethics
- iv. Teamwork
- v. Time Management
- vi. Problem Solving
- vii. Information presentation and visualisation

9.2 Public Sector workforce

9.2.1 General

The standard covers the basic minimum competencies and skills that are required for an employee in the public sector to possess in order to deliver services and interact with government systems.

9.2.2 Requirements

9.2.2.1 Introduction to e Government

MCDAs shall conduct sensitizations and training for Government employees in harnessing the potential of ICT in the delivery of Government services.

9.2.2.2 Producing Government Documents

MCDAs shall conduct training programmes to end users in various Government Ministries and Departments to the use of document processing in production of standard Government documents.

9.2.2.3 Government Communication

MCDAs shall conduct training programmes to end users in various Government ministries and departments in the use of ICT for effective communication and collaboration.

9.2.2.4 Preparing Government Budget

MCDAs shall conduct training programmes to end users in various Government ministries and departments on the use of approved tools in preparing in preparing Government estimates.

9.2.2.5 Making Presentations

MCAs shall conduct training programmes to the end users on how to make effective presentations using presentation software.

9.2.2.6 ICT Security

MCAs shall conduct training programmes and awareness to end users on the basics of ICT security covers issues and principles of security and information assurance including confidentiality, integrity, authentication, identification, authorization, availability and access control.

9.2.2.7 User Support

- a. MCAs shall conduct training programmes on quality customer service skills for effective customer care strategies needed to provide excellent service.
- b. End users shall be trained on use of Help Desk effectiveness for their interpersonal skills, better communication, getting and giving good information, handling challenging behavior and managing telephone interactions.

9.2.2.8 Specific MCDA Applications

All applications provided by vendors to an MCDAs shall have a component for end user training and operational manual for specific applications deployed by MCDAs.

9.2.2.9 e-Records Management

MCA shall conduct training programmes for records officers on the importance of e-Records management

9.2.2.10 e-Front office

MCA shall conduct customer care training for personnel handling citizen services at common service centres.

9.2.2.11 Project Management

- a. MCDAs shall conduct training for staff implementing, managing and working on ICT projects
- b. MCDAs shall ensure that all ICT projects have a training component in them. It shall further ensure that ICT officers are capacitated to supervise outsourced ICT projects, to undertake quality assurance and compliance and manage the project deliverable after project commissioning and enable knowledge transfer.

9.2.2.12 Business Process Reengineering

MCDA shall conduct training on business process re-engineering for senior officers.

9.2.2.13 ICT Leadership and Governance

MCDAs shall conduct trainings on ICT leadership and governance for senior officers to champion ICT projects implementation.

9.2.2.14 ICT induction course

MCDA shall conduct induction to all current and newly recruited personnel on ICT legal framework in Kenya.

9.2.2.15 ICT Literacy Assessment

MCDAs shall conduct basic ICT skills assessments for personnel to determine level of literacy awareness, competencies and expertise.

9.2.2.16 eLearning

MCDA shall implement e-learning management systems to ensure personnel skills development and reduce cost of learning.

9.2.2.17 ICT Global Certification

MCDAs shall implement global standardized certification programs on productivity to end users that ensure international best practice.

9.2.2.18 Curriculum

MCDAs shall implement customized curriculum to suite different productivity levels of skills and competency.

9.2.2.19 Skills inventory systems

MCDA shall implement skills in inventory database systems that provide framework for monitoring and evaluating ICT training programmes and skills levels.

9.2.2.20 ICT Resource Centers

MCDAs shall implement ICT resource center that have requisite computer infrastructure to ensure workforce can all access government information.

9.2.2.21 Review of schemes of service

MCDAs shall regularly review the ICT scheme of service to keep up with dynamics of ICT industry advancement so that career progression is in accordance with international standards and best practices.

9.2.2.22 Digitization and Automation Training

MCDAs shall conduct digitization training for personnel responsible for automation in MCAs.

9.3ICT Skills for Kenya citizens

9.3.1 General

The standard covers the basic minimum competencies and skills that are required for a citizen in order to access and interact with Government systems and the society

9.3.2 Requirements

9.3.2.1 E- literacy

MCDAs shall equip the citizens with ICT literacy skills, knowledge and competencies to access e services in an ICT driven knowledge society

9.3.2.2 e-Citizen

MCDAs shall equip the citizens with knowledge and competencies in using Internet and tools for communication and access of available online services and skills

9.3.2.3 Government of Kenya e-Service

MCDAs shall equip the citizens with knowledge and competencies in using GOK e-Services-access, communication and performing transactions with Government MCAs systems

9.3.2.4 ICT Security

MCDAs shall conduct awareness to citizens on the basics of ICT security on confidentiality, integrity, authentication, identification, authorization, availability and access control

9.3.2.5 E-Services sensitization and Awareness

MCDAs shall implement strategies/programmes and policies for creating awareness on the role of information and ICT for the improvement of quality of life and national development

9.3.2.6 e-Learning on Services

National and counties governments shall implement citizen online education platforms for e-services

9.3.2.7 Competency Surveys

National and counties governments shall conduct competencies surveys to determine the level of ICT literacy and adoption by the citizens

9.4 Accreditation of ICT Institutions /Training providers

The standard will strengthen and structure the ICT profession and its governance in Kenya to enhance its contribution to National economic growth and development. The following requirements shall ensure that ICT profession is conducted in a professional manner

9.4.1 General

- i. The Government shall develop a legislation which shall provide for the Regulation of the ICT profession in Kenya.
- ii. The legislation shall provide for the establishment of the Institute of ICT Professionals.
- iii. The standard shall provide guidelines in to certifying how a government agency (ICTA) shall validate if an ICT Institution offering ICT capacity building.
- iv. 9.4.2 All ICT providers shall be required to compile and submit a Portfolio of Evidence annually. The purpose of this exercise is to allow ICT Authority to determine whether the provider has the ability to provide evidence of Functionality, Administration, QMS and compliance to legislative requirements.
- 9.4.3 The Portfolio of Evidence shall be organized and evidence provided is according to the following headings and sub-headings in a neat file (if possible one only) with table of contents; clearly marked sections with dividers; avoid adding non-relevant documents and do not duplicate material.
- 9.4.4. All providers shall be required to develop programme/s they seek to be accredited to deliver. The purpose of this exercise is to allow ICT Authority to determine whether the provider has the Capacity to design, develop and implement National ICT Qualification framework for the aligned program. All programmes should be developed according to the ICTA structure and meet all the structural requirements
- 9.4.5. All providers shall be required to provide a conducive (suitable) learning environment with suitable and relevant resources for effective delivery of the learning programme/s they seek to be accredited to deliver. The purpose of this exercise is to allow ICT Authority to determine whether the provider has the Capacity to provide functional, appropriate and conducive learning environment. The provider environment should meet the ICTA structural requirements

9.5 Accreditation & Certification of ICT professional in the ICT Industry

This standard sets out minimum requirements for the operation ,certifification and accreditation of an IT professional. It describes the level of capability for different professionals entry in terms of demonstrated technical and domain knowledge in the field of specialization and demonstrated significance responsibility ,influence and independence-Initiate/influence, Ensure/advise, Enable and Apply

This standard applies to ICT professional in the ICT Industry and Code of Conduct of each licensed professional

9.5.1 E-Waste Management and Delivery

This sub-discipline covers the competencies required to plan, implement and manage e- waste.

9.5.2 Certification

Introduction to e-waste management

Electrical and electronic equipment (EEE) readiness to minimize the effects of the infrastructure on the environment

Conserve and protect the environment from the harmful effects of waste emanating from EEE.

- Observe workplace Safety and Procedures
- Safely handle e-waste materials
- Dismantle e-waste materials
- Properly grade e-waste components and fractions
- E Waste Recycling of E-Waste
- Valuable metals recovery process from e-Waste

Apply circular economy principles in e-waste management

Safely dispose of reject e-waste materials

Perform basic repairs in e-waste processing

Use e-waste management tools and equipment

Identify mandatory Documents and records for E-waste management

Identify Laws, Policies and Regulations Governing E-Waste Management

9.5.3.Competence

References

- 1. Kenya Constitution 2010
- 2. Environmental Management and Coordination Act 1999 (Revised 2015) and the Waste Management Regulations (2006)
- 3. Extended Producer Responsibility (EPR) Regulations 2021

ANNEXES

ANNEX A: ICT Professionals In The Public Sector

ANNEX A.1: ICT/Telecommunication infrastructure planning, designing & maintaining

Description	This sub-discipline is part of overall service design.		
	It concerns the design of, and planning for, resilient		
	IT/ infrastructure and environments.		
Requirement	Indicator	Compliance	
		YES	NO
Comply with	Correctly follow the processes, tools, and		
organizational	techniques to use for IT/technology infrastructure		
strategy for IT	design and planning activities		
infrastructure	Reference and fully comply with all organizational		
design and	strategy, policies, and standards relating to		
planning	infrastructure design, configuration principles and		
activities	planning activities, and their deliverables		
	Gather and collate all relevant information i.e		
	contained within the service catalogue service level		
	agreements, service improvement, and quality plans		
	that are required for IT infrastructure d <mark>esi</mark> gn and		
	planning activities and challenges.		
	Consider all relevant information required in		
	assessing the suitability of IT infrast <mark>ructur</mark> e		
	components for any particular desi <mark>gn ass</mark> ignment,		
	comply with the system development lifecycle, IT		
	architecture models in the infr <mark>astructu</mark> re design		
	and planning activities.		
	Document relevant information on IT architecture		
	design and configuration, principles and		
	standards and beat practices for the organization		
	and estimate cost , complexity and rick for IT		
	infrastructure decomisioning and replacement		
	options.		
	Document requisite information for assessing		
	suitability of infrastructure, use of existing		
	infrastructure architecture, configuration		
	deliverables & service improvement and quality		
	management.		

	Identify and document current and future business	
	requirements, considering existing IT infrastructure,	
	implications of outsourcing ,map associated	
	risk and reliability of guiding information for	
	implementation and changes.	
	Develop strategy and policy guidelines for IT	
	infrastructure design, performance assessement,	
	impact of business changes in existing operation	
	model, accuracy of the delivery model, operational	
	effectiveness on the organization brand and	
	reputation and customer needs management.	
Carry out, under	map and document identified external providers of	
supervision,	IT infrastructure for the organization, ascertain their	
customer	suitability, and roles against identified customer	
requirements	needs and potential changes.	
for IT/	Design infrastructure component specific	
technology	information and standards, ascertain error	
infrastructure	identification and corrections plans, prepare and	
design and	document service level agreements and progress	
planning	management plans.	
	Establish plans for infrastructure management	
	terms , document component changes , upgrades,	
	replacements, needs , alignment, clea <mark>r rep</mark> orting	
	structures for management and or stakeholders,	
	incorporating related risk, cost and constraints.	
	Monitor resource and cost implication of new IT	
	infrastructure, provide advice to the management	
	and users on associated risks, adopt effective	
	change management plans ba <mark>sed on a</mark> pproved	
	deliverable indicators and bu <mark>siness ne</mark> eds.	
	Regularly monitor quality of change, effectiveness	
	propose actions for future use and report.	
	Fotoblish strategies, policies, process to be invest	
	Establish strategies , policies , process techniques and interventions mechanisms for IT infrastructure	
	management in collaboration external service	
	providers, where necessary; assess and document	
	customer needs that will necessitate infrastructure	
	changes and interventions against approved	
	deliverables.	
	Ascertain effective allocation of responsibilities	
	to individual and s and groups, and ensure minimal	
	disruption to service delivery change and design	
	verification plans and reporting tools.	

Maintain effective IT/ technology infrastructure design and	Monitor resource and cost implication of new IT infrastructure, provide advice to the management and users on associated risks, adopt effective change management plans based on approved deliverable indicators and business needs.	
planning deliverables	Regularly monitor quality of change , effectiveness propose actions for future use and report.	
Disseminate IT infrastructure design and plans	Disseminate information on IT infrastructure design and planning to management, users and sponsors, stakeholders.	
	Communicate information on technological viability of components, availability, scalability and respective cost and risk implications for effective interventions.	

ANNEX A.2: ICT NETWORK MANAGEMENT

			Compliance	
	Requirement	Indicators	YES	NO
1	Understand and	Explain and document network		
	explain the basics of	characteristics, layouts, tr <mark>ans</mark> mission		
	organization network	methods, broadband capa <mark>bilit</mark> ies,		
	architecture	transmission media, loc <mark>al are</mark> a network,		
		protocols, compliance with approved		
		standards, componen <mark>t perfo</mark> rmance, LAN		
		frame formats, OSI <mark>referenc</mark> e model and		
		topologies.		
2	Understand and	Characterize the Ethernet topology media-		
	explain the basic	access algorithm.		
	token ring, bus, fibre	Explain basic Ethernet configurations,		
	Distributed-Data	respecti <mark>ve performan</mark> ce criteria, token		
	Interface (FDDI), and	ring, bus network, its information flow		
	wireless LAN, TCP/IP	flow , controls, configurations and FBBI		
	control protocol	technology.		

3	Understand and	Characterize a token ring network	
	explain the basics of token ring technology	Explain the token ring information-flow/media-access control	
		Understand and explain the token ring send algorithm	
		Identify token ring configurations (simple, IBM host)	
		Evaluate the advantages and disadvantages of a token ring network	
4	Outline and explain communication protocols.	Outline, identify and document services provided by TCP/IP services, ARPANET, MILNET and NSFnet, internet, respective relations, naming conventions, LAN addresses formats, gateway node differentiation;	
		Explain the IPX/SPX protocols and their relations with TCP/IP, DNS,HTTP, telnet,FTP and SNMP, particular functions of the protocols and architectures.	
5	Identify appropriate	Ascertain user interface management	
	network operating	Identify file management protocols	
	systems	Identify device management protocols	
		Confirm memory management components	
		Identify existing network operating systems	

ANNEX A.3: SYSTEMS DEVELOPMENT

		Compliance	
Requirement	Indicators	YES	NO
Contribute to the	Document the proposal system		
management of	development activities , functions,		
systems development	alignment with national legislation, vision		
	,objectives, regulation, accountability,		
	compliance and quality control.		
Manage, monitor	Determine and profile sponsor and		
and evaluate system	stakeholder roles, engagements, approval		
development	mechanisms and plans, deliverables		
activities	definition, quality control and assessment,		
	communication and reporting structures.		
	Define and document system performance		
	monitoring, action and verification plans,		
	risks and business continuity plans.		

ANNEX A.4: SOFTWARE DEVELOPMENT

Requirement	Indicator
Perform specified software development activities	Follow organisational standards for the systems development lifecycle • Use given information relating to IT architecture models together with business, data and HCI design deliverables to inform software development and testing and acceptable.
	Correctly use specified software development procedures, tools and techniques to create software that meets given designs Functionally test that given designs have been met Use naming conventions and standards in line with organisational standards Use appropriate programming constructs to produce effective software
	 Document own software development activities Follow organisational standards for the systems development lifecycle Assist with the collation and use of information relating to IT architecture models together with business, data and HCI design deliverables in order to inform software development and testing activities

- Assist in specifying precisely how the software that has been developed functions
- Assist with the documentation of software development activities
- Assist with the identification of sponsors of and stakeholders for software development activities
- Identify and collate information on IT architecture models and design deliverables to inform software development

Carry out software development activities under direction

- Verify data and information contained within software development deliverables
- Allocate the development of software components to other staff
- Ensure that software components will operate on the required range of technology platforms and monitor changes that may affect performance
- Select and apply organisational standards relating to software development activities
- Identify which development environments and programming languages are to be used for specific software development activities
- Identify and implement the procedures, tools and techniques applicable to software development activities
- Identify, use and apply best practice in software development assignments
- Design, implement and maintain organisational strategy procedures, standards, tools and techniques for software development activities
- Design, implement and maintain organisational strategy procedures, standards, tools and techniques for monitoring software development activities
- Design and implement strategy, policies, plans and standards to ensure the alignment of software development activities with any relevant legislation, regulation and external standards
- Advise others on which development environments and programming languages are to be used within the organisation
- Advise others, both internally and externally, on best practice in software development activities and their deliverables
- Correctly use software development procedures, tools and techniques as directed by superiors
- Comply with any relevant legislation, regulation and external standards relating to software development activities
- Create software that incorporates the full range of approved design specifications for example those relating to data and HCI, in order to produce effective software
- Test and ascertain that the processing and functional needs specified within logical and physical software design deliverables have been met
- Use naming conventions and standards in line with organisational standards

- Use appropriate programming constructs to produce effective software
- Optimize the use of system resources in software
- Correctly select and apply software development procedures, tools and techniques
- This one is repeated
- Accurately translate a physical software design into functional designs for software components
- Define clearly and accurately the functional requirements of software components
- Update software as required to ensure continued effectiveness or in response to external factors
- Transfer own skills knowledge and understanding from one development environment and programming language to other languages and environments
- Assist with discussion, negotiation and agreement of how the software will function with sponsors and stakeholders during software development
- Advise colleagues on the use of appropriate programming constructs to produce effective software
- Advise users on how to optimize the use of system resources by software
- Monitor the effectiveness of software produced in optimizing system resources and meeting design specifications
- Analyse and interpret the results of testing in order to inform development work
- Contribute to the update of software development deliverables, where appropriate, as a result of projects and programmes
- Contribute to the integration of software development activities, where appropriate, into projects and programmes
- Contribute to the communication of the need for systems development and testing activities to align with software development deliverables
- Contribute to the monitoring of the alignment of systems development testing and implementation activities with software development deliverables
- Document software development activities clearly and accurately
- Contribute to the presentation of the information contained within software development deliverables to a wide range of sponsors, stakeholders and other individuals.

- Ensure that all of the required software components are produced
- Ensure that the software developed takes account of and uses, as appropriate, technologies, software and assets that are available and can be used by an information technology system supporting the organisation
- Verify that the rules and controls required to ensure the integrity and security of the proposed information technology system have been incorporated into software
- Ensure that the deliverables of software development activities meet the relevant designs
- Ensure that the deliverables of software development activities are provided to others as required
- Manage changes to business requirements through change control mechanisms during software development activities escalating issues where appropriate
- Integrate software development activities, where appropriate, into projects and programmes
- Present the information contained within software development deliverables to a wide range of sponsors, stakeholders and other individuals in order to confirm understanding and ensure business needs are being met
- Update software development deliverables, where appropriate, as a result of projects, programmes and software design activities
- Assist with securing sign off of final software development deliverables from sponsors and stakeholders
- Assist with the handover of responsibility for software to service management/support functions
- Communicate the need for testing systems, development and implementation activities to align with software development deliverables
- Advise users, both internally and externally, on all aspects of software development activities
- Effectively manage external providers of software development services
- Monitor, review and report on the alignment of testing system, development and implementation activities with software development activities
- Monitor, review and report on the compliance of software development activities with any relevant legislation, regulation and external standards, in line with organisational strategy, policies and standards

- Monitor and critically analyse the effectiveness and quality of software development activities to identify opportunities for improvement
- Review the alignment of software development activities with any relevant legislation, regulation, external standards, strategy, policies, plans and standards, taking action where appropriate
- Make decisions on the results provided by monitoring software development activities, as appropriate to the organisation
- Make recommendations to improve the effectiveness and quality of software development activities within an organisation
- Apply lessons learned from prior experience in IT software development assignments
- Establish effective relationships with external providers of software development services
- Negotiate effectively with external providers of software development services in line with organisational policies and procedures
- Agree contractual arrangements with external providers of software development services

ANNEX A.5: SYSTEMANALYST

Requirement	Indicator	Compliance	
Initiate a	Identify the phases of the proposed system project	YES	NO
system project	Select basic fact-gathering techniques to be used		
	in system implementation		
	Define the scope of the systems project		
	Conduct a preliminary investigation to determine		
	need		
Perform a	Identify time, technology and resource constraints		
detailed system	Determine investigation techniques to be used		
investigation	Record facts gathered through system investigation		
and analysis	Perform appropriate diagnostic tests		
	Define business problem to be solved by the		
	application		
	Define business information requirements		
	Determine hardware and software needs		
	Interpret source data, charts, and graphs		
	Interpret existing operating documents and		
	procedures for the system		
	Document and assesss existing procedures		
	Research and evaluate technical alternatives		
	Document possible alternative solutions		
	Identify processing requirements		
	Define variables		
	Analyze system specifications		
	Present findings and recommendations to users		
	and management (e.g., work plan, project estimate)		
	Review organizational structure and functions		
Design	Establish standards and policies to govern the		
computer	development of organizational information systems		
applications	Align information system (IS) design with the		
	business process		
	Identify skills requirements of the project		
	development team		
	Develop team mission statement aligned with		
	organizational mission		
	Determine the roles of user and management in the		
	computer system development process		
	Outline steps for program development cycle, (e.g.,		
	prototyping, storyboarding)		

	Identify processing requirements	
	Create specs with development team	
	Divide design specifications into logical blocks (e.g.,	
	flowchart, dataflow diagram, system flow record	
	and layout and UML)	
	Identify constraints (e.g., political, financial, time,	
	hardware, and systems)	
	Recommend programming language	
	Recommend minimum hardware requirements	
	Define input and output (I/O) requirements	
	Design system input/output processes	
	Differentiate between system documentation and	
	user documentation	
	Determine compilers to be used in design	
	Apply rules for naming variables	
	Apply normalization rules to data attributes	
	Define test data to be developed	
	Create design documentation	
	Perform risk analysis	
	Employ security mechanism in the application	
	design	
Develop	Identify documentation needs	
documentation	Prepare system development	
	Prepare System Development Specification	
	documentation	
	Prepare user documentation (e.g., dataflow	
	diagram, UML)	
	Update design documentation	
	Establish documentation-update method	
	Use appropriate modeling tools	
Perform quality	Identify evaluation criteria	
assurance	Develop test plan	
activities	Conduct tests (e.g., system, functionality,	
	integration)	
	Analyze test data	
	Participate in formal technical reviews	
	Present test results	
	Adhere to standards	
	Define, refine, or recommend standards	

Implement computer application system	Interpret existing operating documents and procedures for the system Assist in the preparation of implementation plan Present implementation plan to users and management Assist implementation of new system Perform post-implementation evaluation of new	
	Identify deficiencies and recommend possible solutions Train personnel	
Manage requests for changes	Identify ongoing support requirements Facilitate dialogue with users and articulate issues based on user requirements Collaborate with the Operations Dept., and other departments of the organization who are involved with the project	
	Apply analytical thinking to creatively solve complex problems	

ANNEX A.6: SYSTEMS ADMINISTRATION

Requirement	Indicator	Comp	liance
		YES	NO
Understand	Research the concept of information system life cycles		
the life cycle of	Identify criteria for deciding between acquisition of software		
an information	packages and custom development of software		
system			
Install	Develop a detailed training, conversion, and installation plan for an		
information	information system application		
system	Design networked solutions		
	Install DBMS on the server environment		
	Install appropriate operating system and telecommunications		
	hardware and software		
	Identify system requirements for various types of installations		
	Evaluate installation requirements		
	Install information system application program in accordance with		
	requirements		
	Evaluate processes and outcomes		
	Customize a general-purpose software package to provide specific		
	functionality beyond the default settings		
	Add capability to a software system by recording macros and		
	storing them in the system's library		
	Access needed technical information using software help facilities		
	Operate server applications		
	Ensure that all multi-user aspects of the application function are		
	operational		
	Operate coupled application systems		
Perform	Develop program and system specifications		
software	Load software with minimum disruption of process flow		
configuration and loading	Convert data		
and toduling	Resolve compatibility issues		
	Configure software appropriately for system and user application		
	Perform software coding		
	Participate in application and system development reviews		
	Evaluate emerging technologies and their potential effect on information system software		
	Assemble necessary components to implement information system design		

Monitor	Conduct post-implementation evaluation	
Performance of the information	Identify abnormal system performance	
system	Determine required service levels	
oyotom.	Monitor multiple technologies	
	Recognize system alerts	
	Recognize security problems	
	Recognize environmental problems	
System	Understand the basic elements of computer maintenance	
maintenance	Identify available diagnostic tools used for system maintenance	
	Identify maintenance procedures and processes	
	Identify problems using diagnostic tools	
	Document solutions	
	Tear down a computer	
	Identify (by name) new or replacement computer components needed	
	Install/replace computer components	
	Reassemble a computer	
	Establish a preventive maintenance plan	
	Perform preventive maintenance on computer components	
	Create maintenance plan for regular integrity checks	
	Evaluate maintenance processes	
	Evaluate maintenance outcomes	
Manage backup and recovery,	Develop backup plan to be used by technical support group and users	
both on- and	Develop recovery plan to be used by technical support group and	
off-site	users	
	Implement backup procedures in accordance with a regular	
	schedule	
	Implement recovery procedures as needed	
	Evaluate whether backup and recovery plans meet users' needs	
Troubleshoot	Employ basic troubleshooting steps	
and manage	Detect problems	
problems	Identify criticality of problem	
	Perform appropriate analyses to identify problem cause	
	Develop resolution plan	
	Identify possible solutions	
	Test identified solutions	
	Select most appropriate solution	
	Implement selected solution	
	Minimize impact of problems on productivity (e.g., minimize	
	downtime)	
	downtime)	

Evaluate	Evaluate problem-solving outcomes to determine whether the	
problem-	problem was solved as intended	
solving processes and	Evaluate whether the process was applied in an efficient and	
outcomes	responsible manner	
	Assess the validity and usefulness of the outcomes	
	Determine needed follow-up actions	
Perform	Identify principles governing software acquisition and upgrades	
software	Analyze operational problems	
upgrades	Recommend solutions for operational problems	
	Upgrade software	
Perform	Facilitate the delivery of technical services	
general system	Set up/maintain user accounts on multiple systems	
administration tasks	Provide technical product support	
lasks	Perform planning for overall system functions	
	Prepare cost justifications	
	Manage inventory and assets	
	Identify new application requirements within the system	
	Participate in the evaluation, analysis, and recommendation of	
	technical computing products	
	Participate in evaluation of total system	
	Document performance problems	
	Retrieve historical data for trend analysis	
	Analyze historical data to identify trends	
	Provide input on technical procedures	
	Increase knowledge of system infrastructure	
	Formulate technical procedures	
	Prepare documentation manuals	
	Prepare required reports	
	Maintain technical industry knowledge	

ANNEX A.7: DATABASE ADMINISTRATION

Requirement	Indicator	Comp	liance
		YES	NO
Apply the	Explain the database design life cycle		
principles of	Formulate data flows and prepare dataflow diagrams		
data analysis	Analyze data relationships and prepare data entity relationship		
and design	diagrams		
	Define and design data structures/schema		
	Use data modeling tools		
Explain the	Interpret terminology associated with relational databases		
principles	Explain the features, functions, and architecture of a DBMS		
of Database	Trace the evolution of DBMS models and their implementation		
Management	Identify the uses of a DBMS in business organizations		
Systems	Explain the concepts necessary to access organizational		
(DBMS)	databases		
	Analyze the organization of data in a DBMS		
	Identify the impact of networks on DBMS		
	Explain how a DBMS ensures data integrity through transaction-		
	control techniques		
Maintain a	Distribute data across a distributed DBMS		
DBMS	Analyze/model organizations using Entity-Relationship and Object		
	technologies		
	Remove data anomalies through the process of normalization		
	Create/update a relational database using Structured Query		
	Language		
	Query a relational database using Structured Query Language		
	Query data from an organizational repository using a database		
	access facility		
	Perform database administration tasks		
Manage	Execute implementation plan according to project time line		
implementation	Implement transition plan with minimal impact on productivity		
of a DBMS	Define needed external informational resources (e.g., source,		
	content, cost, and timeliness)		
	Access external information resources using Internet tools		
	Create/maintain a directory of external information resources		
	Design simple reports for validating the performance of application		
	systems		
	Apply software development principles, methods, and tools in		
	implementing IS applications		
	Apply database design techniques to the implementation of a		
	solution with calls from a program to the DBMS		

	Apply networking considerations in implementing distributed
	models
Monitor and	Coordinate security requirements, including documentation
maintain a	functions
DBMS	Identify desired levels of access and security
	Communicate decisions concerning levels of access and security
	Select performance tools and procedures
	Identify problems in a timely fashion
	Propose solutions that are congruent with application
	requirements
	Calibrate DBMS configuration parameters for optimum
	performance

ANNEX A.8: INFORMATION MANAGEMENT AND SECURITY

SUB DOMAIN	DESCRIPTION	JOB ROLES
Information management	Are the competencies required for the management of data and information within an organization and as it crosses into and out of an organization.	 Knowledge manager Knowledge management specialist Information management manager GIS expert Information management officers
Information security	Covers the competencies required to implement and sustain a successful information security management system	 Chief Information Security Officer Information security officer System Auditor

ANNEX A.9: INFORMATION MANAGEMENT

Requirement	Indicator	Compliance	
		YES	NO
Carry out	Effectively carry out own responsibilities with regards to the		
specified	management of data and information		
information	Ensure the integrity of data and information collected and used for		
management	own work		
activities	Correctly classify and categorize data and information within own		
	area of work		
	Accurately provide specified data and information to others as		
	authorized		
	Comply with all relevant and applicable regulations, legislation		
	and organizational standards relating to data and information		
	management		
	Correctly use specified processes, tools and techniques for		
	assessing the compliance of data and information against		
	regulation and standards		
	Accurately maintain records relating to the management of data		
	and information within own area of work		
	Correctly identify and apply the processes, tools and techniques		
	relating to information management activities		
	Gather all appropriate and required information relevant to an		
	organisation and the individuals within it and using its services		
	Verify the accuracy, currency and completeness of information		
	created, collected, accessed, used and documented by information		
	knowledge and data management activities		
	Verify the appropriateness, currency and completeness of any data,		
	information and knowledge assets that are being disposed of		
Document	Correctly document and store all relevant information on those		
information	responsible for information assets, in line with organisational		
assets	policies and procedures		
	Accurately document all required information relating to who can		
	create, access, use, distribute and dispose of information assets		
	Correctly document all specified information assets created,		
	collected, accessed, used, distributed and disposed of		
Manage the	Ensure that the location and properties of information are collated		
classification	and recorded, to enable effective management, classification and		
and	categorisation		
categorisation			
of information			

	Classify and categorise information, in line with organisational	
	policies and procedures	
	Collate, accurately and concisely, information and data that	
	define the procedures for the management of information assets	
	supporting an organisation	
Communicate	Provide accurate, appropriate and timely information to internal	
with others on	and external individuals about what information assets held within	
information	IT/technology systems, services and assets, in line with policies	/ /
management	and procedures	
activities	Ensure all individuals within an organisation understand the	
	importance and value of information assets created, collected,	
	used, accessed, distributed, disposed of both with the organisation	
	and as these assets are exchanged with external bodies and	
	individuals	
Contribute to	Correctly follow the processes, tools and techniques for	
information	information management activities	
management	Collate and record the location and properties of information	
	within an organisation to enable it to be managed, classified and	
	categorised effectively	
	Correctly classify and categorise data and information within own	
	area of work	
	Provide timely access to information assets that are held within IT/	
	technology systems, services and assets to authorised individuals	
	in line with policies and procedures	
	Comply with all relevant and applicable legislation, regulations	
	and external standards relating to the management of information	
	assets	
	Source relevant and accurate information relating to who can	
	create, access, use, distribute and dispose of information assets	
	Correctly document and store all relevant information on those	
	responsible for information assets, in line with organisational	
	policies and procedures	
	Assist in the implementation and maintenance of the procedures	
	within IT/technology systems, services and assets to classify,	
	categorise and manage information assets and how they are	
	accessed	
	Assist in monitoring the creation of, access to and use, distribution	
	and disposal of information assets	
	Ensure that those responsible for information assets are correctly	
	identified	
	Ensure that all relevant information assets are accurately identify	
	Lisone that attracevant information assets are accordingly literating	

Critically analyse the properties of information within the	
organisation to enable it to be classified, categorised and managed	
effectively	
Implement and accurately maintain the procedures within IT/	
technology systems, services and assets to classify, categorise	
and manage information, data, knowledge assets and how they are	
accessed	
Proactively work with others to classify and categorise information	
assets contained within IT/technology systems, services and	
assets in a way that supports their use and access	
Routinely verify the accuracy, currency, completeness and	
relevance of information assets managed within IT/technology	
systems, services and assets	
Regularly monitor the creation of, access to and use, distribution	
and disposal of information within an organisation, analysing	
findings and reporting issues to superiors, stakeholders and other	
relevant internal and external individuals and groups	
Routinely monitor compliance with all relevant legislation,	
regulations, standards and professional and ethical standards	
relating to information management, taking action and reporting	
issues where appropriate	
Liaise effectively with internal stakeholders on the requirements	
for the management of information within the organisation	
Design, implement and maintain appropriate and effective strategy,	
policies, plans, processes, procedu <mark>res and</mark> standards relating to	
information usage and management	
Design effective processes, tools and techniques to monitor the	
creation, use, access to, distri <mark>bution an</mark> d disposal of information	
management assets	
Identify and manage suitable and timely actions to be taken in the	
event of information management activities and their deliverables	
not supporting the business needs and/or meeting compliance	
requirements	
Ensure that individuals business owners act to maintain the	
accuracy, currency and completeness of information assets within	
the organisation	
Provide appropriate, understandable and timely advice and	
guidance to others on how to categorise, manage and use	
information assets contained with IT/technology systems, services	
and assets, applying own judgement and experience	

Manage the comprehensive classification, organisation and	
administration of information data and knowledge assets,	
contained within IT/technology systems, services and assets that	
is undertaken by others	
Manage the ongoing alignment of all information usage and	
management within the organisation with any relevant legislation,	
regulations and external standards	

ANNEX A.10: INFORMATION SECURITY

Requirement	Indicator	Comp	liance
		YES	NO
Follow	Identify and follow information governance processes as relating		
information	to information systems and information in relation to own area of		
security	work		
governance	Correctly use processes tools and techniques relevant to		
	information governance as appropriate to own work		
	Comply with all relevant IT strategies policies and governance		
	decisions in own area of work		
	Correctly provide specified information on information governance		
	to others		
	Assist in the completion and storage of specified records relating		
	to the effectiveness of IT strategy policies and governance		
	Correctly follow all relevant it strategies policies and governance		
	decisions in own area of work		
	Correctly apply information policies and governance processes and		
	standards within own area of work		
	Assist with the analysis of business governance to identify		
	strategic priorities for the information systems		
	Identify internal and external stakeholders who should be involved		
	in disseminating and the implementation of governance models as		
	appropriate		
	Assist with the documentation of governance decisions as		
	appropriate		
	Identify actions to be taken as a result of decisions made by		
	governance		
	Communicate decisions made by governance to other internal		
	stakeholders including customers and colleagues		

Clearly identify relevant strategy, policy and standards that need	
to be considered within development of information security	
governance models, policy and standards	
Clearly identify the objectives and scope of information	
governance models and standards	
Agree executive sponsorship and governance for information	
security	
Clearly identify and accurately document roles and responsibilities	
for managing the effective implementation and operation of	
information governance models and standards	
Accurately identify and document the specific areas of information	
governance standards required, e.g. data storage, personnel	
requirements etc	
Design and implement information governance models and	
standards	
Implement and apply information governance standards to own	
and extended business enterprise	
Advise and guide others on all aspects of information governance	
activities and their deliverables	
Take decisive and timely action to ensure that processes and	
procedures to underpin information governance standards are	
documented, tested and implemented	
Assess the quality and effectiveness of information governance	
processes, procedures and standards against relevant external	
policies, standards and guidelines, and take remedial action where	
appropriate	
Be fully accountable for all aspects of information governance	
Design, develop, implement and maintain the policy, processes,	
standards, plans and procedures to provide the framework for the	
governance of information assets within the organisation	
Ensure the business strategy and objectives are fully reflected	
within the requirements for information governance within the	
organisation	
Design, develop, implement and maintain frameworks to retain	
appropriate information governance expertise including regulatory	
and legal, within the organisation	
Secure management commitment and resources to support the	
information governance structure	

	Monitor the quality and effectiveness of information governance,	
	critically reviewing the policies and standards and making	
	recommendations for improvement where appropriate	
	Monitor the alignment of information assurance and governance	
	activities and their deliverables with all relevant legislation,	
	regulation, internal and external standards, in line with	
	organisational strategy, policies and standards	
	Provide timely and objective advice and guidance to others on all	
	aspects of information governance including best practice and the	
	application of lessons learned	
	Direct resource allocation and professional development strategy	
	for information governance	
	Provide thought leadership on the discipline of information	
	governance, contributing to internal best practice and to externally	
	recognised publications, white papers etc	
Assist secure	Assist in secure development activities for information systems	
development,	and digital solutions under supervision	
of information	Use a range of appropriate techniques, as directed by supervisors/	
security system	senior managers, to identify and implement security requirements	
	during secure development activities	
	Review the development lifecycle to ensure that security needs	
	are considered at the earliest possible stage, validated by	
	Supervisor Operate with reference to expenientional etendards for coftwere	
	Operate with reference to organisational standards for software development activities	
	Use and apply the approved methods and tools for secure	
	development, under supervision	
	Correctly apply the organisation's information security	
	architecture to any particula <mark>r informat</mark> ion system or digital	
	solution development unde <mark>r supervis</mark> ion	
	Implement and apply the processes, procedures, tools, methods	
	and techniques nece <mark>ssary for any</mark> secure development	
	Complete secure development following relevant internal and	
	external standards, under supervision	
	Accurately identify and clearly document information security	
	requirements for any particular information system or digital	
	solution	
	Clearly communicate how security requirements need to be built	
	into any particular information system or digital solution	

Engage proactively with other teams, individuals and third parties involved in information systems and digital solutions development to ensure that they understand the information security standards with which they need to comply	
Critically review the deliverables from information systems and digital solutions development to ensure that they comply with any necessary internal and external information security standards	
Conduct rigorous testing of all aspects of a new information system or digital solution to identify information security issues or risks	
Assist with the improvement of information security techniques that are incorporated within secure developments	
Effectively manage secure development resources, activities and deliverables	
Ensure teams involved in information systems development understand the information security practices and standards with which they need to comply	
Correctly apply the organisation's information security architecture and development processes to complex systems information systems development	
Select and apply the tools, methods and techniques necessary to support secure development	
Clearly communicate to developers how information security requirements specified in the solution design need to be built into a particular network or information system being developed	
Take action to ensure that there is appropriate information security review of the system development lifecycle, making recommendations for improvement as appropriate	
Critically review network and information systems design and development to identify any unresolved information security issues or risks	
Update secure development processes and standards where appropriate to reflect the dynamic nature of security threats and risks	
Present information on secure development deliverables to a wide range of sponsors stakeholders and other individuals	
Be fully accountable for secure development activities and deliverables	
Define the strategy, policies and standards relating to secure development	
Design, update and disseminate the procedures, tools and techniques relating to secure development activities as required	

	Provide timely and objective advice and guidance to others on all	
	aspects of secure development and management, including best	
	practice and the application of lessons learned	
	Direct resource allocation and professional development strategy	
	for secure development activities	
	Make ongoing improvements to the quality and effectiveness of	
	secure development activities, through reviews of the approved	
	tools and methods	
	Provide thought leadership on the discipline of secure	
	development, contributing to internal best practice and to	
	externally recognised publications, white papers etc	
Assist design	Assist in developing architectural solutions which minimise risk	
of security	exposure for information systems	
architecture	Design, and develop secure architecture solutions that meet	
	specified information security requirements and standards under	
	supervision	
	Correctly use and apply information and data relating to the	
	categorisation of information assets used by the organization	
	Operate with reference to organisational standards for the	
	development of information security architectures	
	Accurately document roadmaps for the organisation's information	
	systems and solutions and the information assets of the	
	organization	
	Accurately identify and follow established design and architecture	
	models in developing new information system architectures	
	Clearly and accurately document h <mark>ow and</mark> where information	
	security controls need to be applied to the organisation's	
	information assets, systems and digital solutions that process and	
	use them, validated by supervisors	
	Design, develop and implement fault tolerant and robust	
	information security architectures	
	Clearly communicate how new and existing information security	
	architectures support business needs and risks	
	Engage and communicate with secure development and	
	information security architecture teams to ensure that they	
	understand the internal and/or external information security	
	architecture standards with which they need to comply	
	Analyse developed information systems in order to determine	
	their compliance with the information security architecture and to	
	identify any inherent weaknesses	
	Clearly and accurately document where information security	
	controls need to be applied in the security architecture	

Source and apply information contained within information security architecture models	
Design and develop comprehensive information security architectures relevant to complex network and information systems	
Design, implement and maintain the standards and techniques relating to information security architectures	
Securely develop information systems in compliance with the approved information security architectures	
Advise others on all aspects of the development and implementation of information security architectures	
Lead teams to implement standard architecture models and roadmaps astutely and persuasively to influence strategic IT/ technology decision making and operational business decision making	
Routinely monitor and modify architectures to reflect new products and processes to align to changing business needs	
Correctly identify the vulnerabilities and risks of existing and new information security architectures and make recommendations to improve and update them	
Implement and maintain the processes, tools and techniques for undertaking secure architecture work	
Routinely and regularly monitor the alignment of network and information systems with information security architecture models and roadmaps	
Report and communicate: the progress of information security architecture assignments, the findings and recommendations from information security architecture assignments	
Be fully accountable for information security architecture development	
Set the strategy, policies and standards relating to information security architecture	
Implement and update the procedures, tools and techniques relating to information security architecture development activities as required	
Negotiate effectively with sponsors and stakeholders on the implications of information security architecture activities for the wider business	
Set the resourcing strategy and correctly source appropriately skilled internal/external individuals, where necessary, to undertake and/or manage information security architecture and roadmap activities	

	Effectively apply information security architecture models and roadmaps to conduct security risk analysis on information systems scenario planning	
	Advise others on all aspects of information security architectures	
	including best practice and the application of lessons learned	
	Provide thought leadership on information security architecture, contributing to internal best practice and to externally recognised	
	publications, white papers	
Perform	Able to assist in determining responses to a range of standard	
security testing	security scans and tests on network devices and information	
	systems and components	
	Use a range of appropriate methods, tools and techniques, as directed by supervisors/senior staff, to conduct information security testing	
	Undertake a range of basic penetration tests, under controlled conditions, to assess vulnerabilities and compliance against information assurance criteria and standards under supervision	
	Assist with the development of accurate and clear security test scripts to ensure that information assurance requirements can be tested against relevant standards	
	Objectively assess the results of information security testing and vulnerability assessment against the acceptance criteria	
	Accurately collate and clearly document the outcomes from information security tests and vulnerability assessment providing prioritised rudimentary mitigation information and advice	
	Report potential issues and risks arising from security testing to supervisors	
	Undertake information security tests, under controlled conditions, to assess vulnerabilities and compliance against relevant internal and/or external standards	
	Use a range of appropriate methods, tools and techniques to conduct penetration testing	
	Clearly and accurately scope and plan the information security test approach, prioritising testing activity to proactively target the most significant threats and vulnerabilities first	
	Interpret information assurance requirements to produce information security test acceptance criteria	
	Carefully plan a context driven test approach to systematically test a system in order to validate its information security status	
	Design and develop accurate and clear test scripts, plans and acceptance criteria to ensure that information assurance requirements can be tested against relevant internal and/or external standards	

Critically review the results of penetration testing and accurately identify specific vulnerabilities within any specified information system	
Prioritise outcomes and recommend specific and timely action to address vulnerabilities identified as a result of information security testing	
Clearly report on, and communicate, the results of information security testing, recommending mitigation actions	
Ensure information security testing reports are high quality and relevant to the audience	
Be responsible for penetration testing in own area of work	
Design, implement and maintain the standards processes, procedures, methods, tools and techniques to conduct information security assessments	
Design, simulate, and execute controlled attacks on networks and systems as part of a comprehensive penetration testing approach	
Apply existing and emerging methods to test and identify vulnerabilities to network and information systems	
Select and specify the most appropriate tools to be used during penetration testing	
Clearly and accurately define the scope of any penetration testing assignment aligned to the context of the test scenario	
Lead and manage a penetration testing team, prioritising resource allocation and capability management ensuring that appropriate ongoing training and development is in place	
Source, gather and collate information and data about the vulnerabilities identified as a result of penetration testing and the potential impact on the organisation's information systems and assets	
Critically review the results of penetration testing, identifying priorities for action where appropriate	
Communicate the results of information security testing to a range of audiences justifying and evidencing any recommendations on security failures and non compliance	
Review and update information security testing processes and standards where appropriate to reflect the changing nature of security threats and risks	
Make decisions to implement improvements to the organisation's information systems and assets to reduce the risks associated with identified vulnerabilities, documenting such changes	
Be fully accountable for all penetration and information security testing activities, results and recommendations for mitigation	

Design, develop, implement and maintain the policy and standards to provide a detailed information security testing framework for		
use within the organization		
Review, improve and update penetration testing methods and tools to continue to provide effective testing services		
Ensure penetration testing activities and reports are clearly documented		
Design, develop, implement and maintain resourcing and training strategy and plans to retain and develop appropriate penetration and information security testing expertise within the organisation		
Continually monitor information security threat trends and keep aware of the latest information providing informed guidance to penetration testing activities		7
Monitor the quality and effectiveness of penetration testing activities, critically reviewing the approach and process and making recommendations for improvement where appropriate		
Provide timely and objective advice and guidance to others on all aspects of information security testing activities including penetration testing best practice and the application of lessons learned		
Maintain an authoritative position on proactive information security testing to identify and disseminate new threats to contribute to the body of knowledge		
Develop communication processes fo <mark>r inte</mark> rnal and external parties (e.g. customers) relating to penetration testing activities and results		
Authorise the issue of formal reports to management on the effectiveness and efficiency of security testing, in appropriate language for the audience		
Provide thought leadership on the discipline of information security testing, contributing to internal best practice and to externally recognised publications, white papers etc		
Take timely and decisive action in the event of information security testing activities and their deliverables not complying with relevant legislation, regulations, and internal and external standards		
Correctly follow the strategy, policies, plans and standards relating		
information assurance activities		
Follow an appropriate information assurance methodology, under supervision		
Use a range of appropriate tools and techniques, as directed by superiors, to conduct information assurance activities, under supervision		
	to provide a detailed information security testing framework for use within the organization Review, improve and update penetration testing methods and tools to continue to provide effective testing services Ensure penetration testing activities and reports are clearly documented Design, develop, implement and maintain resourcing and training strategy and plans to retain and develop appropriate penetration and information security testing expertise within the organisation Continually monitor information security threat trends and keep aware of the latest information providing informed guidance to penetration testing activities Monitor the quality and effectiveness of penetration testing activities, critically reviewing the approach and process and making recommendations for improvement where appropriate Provide timely and objective advice and guidance to others on all aspects of information security testing activities including penetration testing best practice and the application of lessons learned Maintain an authoritative position on proactive information security testing to identify and disseminate new threats to contribute to the body of knowledge Develop communication processes for internal and external parties (e.g. customers) relating to penetration testing activities and results Authorise the issue of formal reports to management on the effectiveness and efficiency of security testing, in appropriate language for the audience Provide thought leadership on the discipline of information security testing, contributing to internal best practice and to externally recognised publications, white papers etc Take timely and decisive action in the event of information security testing activities and their deliverables not complying with relevant legislation, regulations, and internal and external standards Correctly follow the strategy, policies, plans and standards relating information assurance activities Follow an appropriate information assurance methodology, under supervision	to provide a detailed information security testing framework for use within the organization Review, improve and update penetration testing methods and tools to continue to provide effective testing services Ensure penetration testing activities and reports are clearly documented Design, develop, implement and maintain resourcing and training strategy and plans to retain and develop appropriate penetration and information security testing expertise within the organisation Continually monitor information security threat trends and keep aware of the latest information providing informed guidance to penetration testing activities Monitor the quality and effectiveness of penetration testing activities, critically reviewing the approach and process and making recommendations for improvement where appropriate Provide timely and objective advice and guidance to others on all aspects of information security testing activities including penetration testing best practice and the application of lessons learned Maintain an authoritative position on proactive information security testing to identify and disseminate new threats to contribute to the body of knowledge Develop communication processes for internal and external parties (e.g. customers) relating to penetration testing activities and results Authorise the issue of formal reports to management on the effectiveness and efficiency of security testing, in appropriate language for the audience Provide thought leadership on the discipline of information security testing, contributing to internal best practice and to externally recognised publications, white papers etc Take timely and decisive action in the event of information security testing activities and their deliverables not complying with relevant legislation, regulations, and internal and external standards Correctly follow the strategy, policies, plans and standards relating information assurance activities Follow an appropriate information assurance methodology, under supervision Use a range of ap

Operate with integrity and confidentiality during information assurance activities	
Identify when, and how, to seek advice and guidance from other individuals during information assurance activities	
Complete, to defined standards and timelines, own assigned tasks and activities during information assurance activities	
Clearly identify, and accurately document, the organisation requirements with respect to information assurance methodology implementation	
Clearly scope and plan the approach for introducing an information assurance methodology, including any impacts internally and on third parties	
Accurately source, gather and collate information and data relating to the implementation of information assurance methodologies	
Implement and apply an information assurance methodology to own and extended business enterprise assurance, under direction	
Critically assess the implementation of information assurance methodologies and/or approaches against the requirements of the organization	
Communicate effectively the outcomes and deliverables of information assurance methodologies	
Ensure that all necessary processes, procedures, tools and techniques supporting the methodology are documented	
Be responsible for information assurance on all types of information systems	
Provide leadership on information assurance for the organization, working effectively with strategic organizational functions to provide authoritative advice and guidance	
Clearly align the scope of information assurance to the context of the business	
Plan, schedule and manage information assurance of the organization's information systems and assets	
Select and apply the most appropriate methodology for information assurance	
Accurately identify, document and communicate the selection of the most appropriate information assurance methodology to verify that information assurance risks are mitigated to acceptable	
Clearly identify and accurately document roles and responsibilities for information assurance	
Rigorously monitor the implementation and adoption of the information assurance methodology within the organization	

	Monitor the quality and effectiveness of information assurance activities, making recommendations for improvement where appropriate	
	Identify, source and secure the most appropriate resources and skills from within the organization to conduct information assurance activities	
	Be fully accountable for the information assurance methodology	
	Design, implement and maintain the information assurance governance mechanisms for the organization	
	Design and develop, improved information assurance methodologies to reflect changing requirements	
	Design, develop, implement and maintain the policy and standards for information assurance within the organization	
	Monitor the alignment of information assurance activities and their deliverables with all relevant legislation, regulation, internal and external standards, in line with organizational strategy, policies and standards	
	Take timely and decisive action in the event of information assurance activities and their deliverables not complying with relevant legislation, regulations, and internal and external standards	
	Create and maintain an information risk awareness culture within the organization, ensuring everyone understands their role and responsibilities in maintaining information assurance throughout the organization	
	Advice and support others on all aspects of information assurance methodology including best practice and the application of lessons learned	
	Provide thought leadership on the discipline of information assurance, contributing to internal best practice and to externally recognized publications, white papers etc	
Perform Security	Correctly follow and apply the policies and standards relating to information security operations management activities	
Operations and management	Assist in identify and assessing the new vulnerabilities on potential security violations	
activities	Take appropriate action to report incidents, as required by procedure, in order to avert any effect from it	
	Operate with integrity and confidentiality during information assurance activities	
	Identify when, and how, to seek advice and guidance from other individuals during information assurance activities	
	Complete, to defined standards and timelines, own assigned tasks and activities during information security operations management activities	

Assess the performance of information security controls within the	
information system network	
Correctly identify and document the information assets that need	
to be to protected, validating with the information asset owner	
Correctly source, gather and use information and procedures	
relating to how each information asset will be protected	
Verify that applicable security patches and upgrades are	
implemented according to the organisation's policy and standards	
Diagnose and resolve information security problems in response to	
reported incidents	
Install and operate information systems within the organisation	
in an information security test configuration manner following	
organisational policy and standards	
Install and operate information systems within the organisation	
in an information security test configuration manner following	
organisational policy and standards	
Monitor and evaluate the effectiveness of the organisation's	
information security procedures and safeguards for the	
information systems infrastructure	
Demonstrate effective communication of security issues and	
advice to business managers and others	
Ensure that operations and service delivery activities align	
together and with appropriate organisational strategy, policy and standards relating to the security of information assets	
Analyse instances of non-compliance to procedures and take appropriate administrative or technological action to correct and	
minimise security risks	
Implement and maintain the standards and procedures for	
managing secure operations and service delivery across the full	
range information systems	
Develop and implement the necessary information security	
operations management plans and procedural documentation	
to ensure that information security incidents are avoided during	
ongoing operations and shutdown/closure of information systems	
Design, implement and monitor the user access rights	
management framework for the full range of information systems	
Regularly schedule and conduct security and vulnerability	
assessments on the operational environment	
Routinely evaluate compliance to legal, regulatory, contractual and	
organisational requirements for the security of information assets,	
report the results to sponsors, stakeholders and other internal/	
external individuals and bodies	
Provide advice regarding security operations management	
activities	

	Provide advice regarding cooughty energtions management	
	Provide advice regarding security operations management activities	
	Be fully accountable for secure operations, service delivery and	
	vulnerability assessment	
	Develop policies and standards for secure operations, service	
	delivery and vulnerability assessment	
	Design and specify organisational procedures, against recognised	
	criteria, such as ISO 27001	
	Advise appropriate stakeholders of changes affecting the	
	organisation's vulnerability status	
	Provide leadership and guidelines on secure operations, service	
	delivery and vulnerability assessment, providing authoritative advice and guidance	
	Direct resource strategy and resource allocation and professional	
	development strategy for secure operations, service delivery and vulnerability assessment	
	Provide thought leadership on the discipline of secure operations,	
	service delivery and vulnerability assessment, contributing to best	
	practice and to externally recognised publications, white papers	
	etc	
Assist secure	Follow organisational instructions and pre-established guidelines	
operations	to perform information security tasks	
	Assist in applying appropriate access controls and privileges to an	
	organisation's computing environment, under supervision	
	Configure, optimise and test infrastructure technology (network	
	file servers, hubs, routers and switches) to ensure they comply	
	with the organisation's security policy, procedures, and standards,	
	undersupervision	
	Take appropriate action to rep <mark>ort incide</mark> nts, as required by	
	procedure and, where app <mark>licable, legi</mark> slation, in order to avert any	
	effect from it	
	Implement response actions and reporting in reaction to security	
	incidents following policy and standards, reporting such actions to	
	supervisor	
	Assist in maintaining documentation of security records	
	Complete, to defined standards and timelines, own assigned tasks	
	and activities during information assurance activities	
	Working with the information asset owners, correctly identify,	
	document and classify the information assets that need to be to	
	protected	
	Apply appropriate access controls and privileges to an	
	organisation's computing environment	

	Assist in documenting the outcomes of vulnerability assessments	
	and activities during vulnerability assessment activities	
	Complete, to defined standards and timelines, own assigned tasks	
	individuals during vulnerability assessment activities	
	Identify when, and how, to seek advice and guidance from other	
assessments	and assets	
vulnerability	vulnerabilities within the organisation's information infrastructure	
Conduct	Source, gather and collate information and data about the	
	internal/external individuals and bodies	
	security of information assets, to sponsors, stakeholders and other	
	regulatory, contractual and organisational requirements for the	
	routinely monitor and report the results of compliance to legal,	
	infrastructure	
	ensuring integration with information security requirements for the	
	modified hardware, operating systems, and software applications	
	validate the planning and scheduling of the installation of new or	
	enhances the rule sets to block sources of malicious traffic	
	firewalls, grid sensors, etc and documenting, under direction,	
	designs and installs perimeter defence systems including ids,	
	design, implement and monitor the user access rights framework	
	address potential vulnerabilities, in line with procedures	
	routinely monitor operational security provision, taking action to	
	comply with organisational information security requirements	
	security hardware (such as firewalls, routers etc) to ensure they	
	install, test, maintains, and upgrade network and information	
	operations and service delivery	
	procedures, methods, tools and techniques for managing secure	
	implement and maintain policies, plans, standards, processes,	
	Review security logs as per procedures	
	documentation to agreed standards	
	Document security activities and maintain security records and	
	tools are implemented according to organisational standards and policies	
	Ensure applicable patches and upgrades to security protection	
	how each information asset may be accessed, processed, used, transformed and transmitted	
	Correctly source, gather and use information and data relating to	
	systems.	
	privileges, and operate agreed logical access controls and security	

	y the most appropriate methods and tools to be nerability assessments, validating selection with	
supervisor		
Clearly and acc	urately identify specific vulnerabilities within target	
information sys	tems	
Critically review	the results of vulnerability assessments,	
identifying prior	ities for action where appropriate	
Communicate v	ulnerability assessment outputs informing	
appropriate stal	keholders of the impact and potential resolutions	
Assess vulneral	oility intelligence in order to determine the	
potential releva	nce and impact to the organisation's information	
systems infrast		
Ensure the pres	ervation of information integrity where	_
	ave been identified	
	to implement improvements to the organisation's	
	tems infrastructure and assets to reduce the	
	I with identified vulnerabilities, document all such	
	pervisor sign-off	
	for undertaking accurate security vulnerability	
	a all types of information systems	
	nent and maintain plans, processes, procedures,	_
	and techniques for vulnerability assessment	
activities and th		
Clearly and acc	urately define the scope of vulnerability	
	ivities, adjusting the process to suit specific	
contexts		
Select and appl	y the most appr <mark>opriate m</mark> ethods and tools to be	_
used during vuli	nerability assessments	
	ng and training plan for vulnerability assessment	_
activities		
Identify, source	and secure the most appropriate resources to	_
	ised vulnerability assessment activities	
	for designing, implementing and reporting metrics	_
	nformation system vulnerabilities effectiveness	
	the results of vulnerability assessments,	
	ities for action, where appropriate	
	ate new potential vulnerabilities that may impact	
	tion's information assets	
		_

itor the quality and effectiveness of vulnerability assessment vities, critically reviewing the vulnerability assessment process making recommendations for improvement, where appropriate se and guide others on all aspects of vulnerability assessment vities and their deliverables municate vulnerability assessment status and results to a range of sponsors, stakeholders and other individuals tify the sources and nature of information security incidents to the mation systems escalating to supervisors		
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rate with integrity and confidentiality during information rity incident management activities		
tify when, and how, to seek advice and guidance from other iduals during information security incident management vities		
plete, to defined standards and timelines, own assigned tasks activities during information security incident management vities		
rly and accurately define the scope of any information security lent management exercise, validating with supervisor		
prately source, gather and collate information relating ecurity incidents that may impact on the organisation's mation assets, engaging with stakeholders in a professional ner		
orm incident management, under supervision, including lent detection, classification, investigation, resolution, rting and closure		
er supervision take ownership for an incident and act as the ary level of escalation		
cally review information and data from security incidents to ss business impact and to determine resolution mitigation		
e recommendations as to the specific actions that should be ied to respond to security incidents, and escalate incidents are outside agreed tolerance levels		
municate the status of security incidents and their outcomes ctively to stakeholders		
ew and update procedures for incident management		
esponsible for managing information security incidents on all s of information systems		
as the interface to other technical and managerial staff other groups within the organisation in relation to specific lents		
	mation systems escalating to supervisors ectly follow the procedures and standards relating information writy incident management activities under supervision rate with integrity and confidentiality during information writy incident management activities tify when, and how, to seek advice and guidance from other riduals during information security incident management writies plete, to defined standards and timelines, own assigned tasks activities during information security incident management writies rely and accurately define the scope of any information security lent management exercise, validating with supervisor wrately source, gather and collate information relating equity incidents that may impact on the organisation's mation assets, engaging with stakeholders in a professional ner form incident management, under supervision, including lent detection, classification, investigation, resolution, ring and closure er supervision take ownership for an incident and act as the ary level of escalation cally review information and data from security incidents to se business impact and to determine resolution mitigation er recommendations as to the specific actions that should be ied to respond to security incidents, and escalate incidents are outside agreed tolerance levels municate the status of security incidents and their outcomes cively to stakeholders ewand update procedures for incident management esponsible for managing information security incidents on all sof information systems as the interface to other technical and managerial staff other groups within the organisation in relation to specific	tify the sources and nature of information security incidents to mation systems escalating to supervisors ectly follow the procedures and standards relating information wity incident management activities under supervision at with integrity and confidentiality during information wity incident management activities tify when, and how, to seek advice and guidance from other iduals during information security incident management wities plete, to defined standards and timelines, own assigned tasks activities during information security incident management wities rly and accurately define the scope of any information security lent management exercise, validating with supervisor wrately source, gather and collate information relating security incidents that may impact on the organisation's mation assets, engaging with stakeholders in a professional ner orm incident management, under supervision, including lent detection, classification, investigation, resolution, ring and closure er supervision take ownership for an incident and act as the ary level of escalation cally review information and data from security incidents to ss business impact and to determine resolution mitigation er ecommendations as to the specific actions that should be ided to respond to security incidents, and escalate incidents are outside agreed tolerance levels municate the status of security incidents and their outcomes cively to stakeholders ewand update procedures for incident management esponsible for managing information security incidents on all as of information systems as the interface to other technical and managerial staff other groups within the organisation in relation to specific

	Provide a prompt recovery of information assets and systems within the business to the specified service level agreement or SLA	
	Review and apply the strategy, policies, procedures, tools and techniques relating to incident response and management activities	
	Develop, implement and maintain procedures, and techniques for responding to, and managing, security incident activities and their deliverables	
	Correctly identify the range of response actions that may be used to mitigate security incidents	
	Ensure that incident management teams remain focused on resolving incidents and have clear priorities	
	Take decisive and timely action in the event of incidents impacting the integrity of information systems	
	Develop and maintain organisational capability in incident response and management	
	Objectively analyse and clearly present the findings from incident management activities appropriately to sponsors, stakeholders and external bodies	
Assist with	Correctly follow the procedures and standards relating to security	
incident	incident investigation activities	
investigation	Assist in ensuring that all applicable logs and other records are	
activities	preserved as evidence	
	Identify how access was obtained during security incident	
	Operate with integrity and confidentiality during information	
	security incident investigation activities	
	Identify when, and how, to seek advice and guidance from other	
	individuals during security incident investigation activities	
	Identify the need for detailed forensic examination as part of an investigation	
	Document, report and communicate the findings of an investigation	
	Clearly and accurately define the scope of any information security incident investigation, validating with supervisor	
	Identify potential sources of evidence to investigate, validating with supervisor	
	Accurately source, gather and collate information and evidence relating to security investigations, engaging with stakeholders in a professional manner	
	Perform incident investigations under supervision	
	Take ownership for an investigation and act as the primary contact, under supervision	

Critically review information and data from information security	
incidents to inform the investigation, validating with supervisor	
Make recommendations as to the specific investigation actions	
that should be followed, under supervision	
Communicate the status and results of security incident	
investigations clearly and effectively to stakeholders, under	
supervision	
Review and update procedures for investigations using information	
from past investigations	
Be fully accountable for managing security investigations on all	
types of information systems	
Act as the interface to other technical and managerial staff	
and other groups within the organisation in relation to specific	
investigations	
Provide a prompt investigation of information systems within the	
business to the specified response level	
Review and apply the strategy, policies, procedures, tools and	
techniques relating to incident investigation	
Develop, implement and maintain procedures, and techniques for	
investigating security incidents	
Develop and maintain organisational capability in incident	
investigation	
Objectively analyse, and clearly prese <mark>nt, th</mark> e findings from incident	
investigation activities appropriately <mark>to sp</mark> onsors, stakeholders and	
external bodies	
Be fully accountable for security i <mark>ncident</mark> management,	
investigation and forensics	
Define the strategy, policies a <mark>nd standa</mark> rds for security incident	
management, investigation <mark>and forens</mark> ics	
Ensure that security incident management, investigation and	
forensics is sufficient to provide the business with full assurance	
of information integr <mark>ity and resil</mark> ience	
Direct resource allocation and professional development strategy	
for incident management, investigation and forensics activities	
Oversee the alignment of security incident management,	
investigation and forensics across, and between, enterprises	
Monitor the quality and effectiveness of incident management,	
investigation and forensics activities, critically reviewing them and	
making recommendations for improvement, where appropriate	

	Provide timely and objective advice and guidance to others on	
	all aspects of security incident management, investigation and	
	forensics activities, including best practice and the application of	
	lessons learned	
	Develop and document communication processes for internal and	
	external parties (e.g., media, law enforcement, customers) relating	
	to security incident management, investigation and forensics	
	Authorises the issue of formal reports to management on the	
	effectiveness and efficiency of security incident management,	
	investigation and forensics	
	Provide thought leadership on the discipline of security incident	
	management, investigation and forensics, contributing to internal	
	best practice and to externally recognised publications, white	
	papers etc	
Assist with	Correctly follow the procedures and standards relating to forensic	
forensic	examination activities	
examination	Apply forensic examination procedures to develop leads to help to	
	identify instigators of information security incidents, reporting to	
	supervisor	
	Collect evidence relating to all records of the unauthorised access	
	that lead to the incident	
	Operate with integrity and confidentiality during information	
	security forensic examinations	
	Preserve the 'crime scene' from alteration	
	Collect and analyse data as part of a forensic examination	
	Identify when, and how, to seek advice and guidance from other	
	individuals during forensic examination	
	Document all information, reporting the findings of a forensic	
	examination, under supervision	
	Correctly use, and apply, the processes and procedures, methods	
	tools and techniques to conduct forensic examinations	
	Accurately source, gather and collate data in order to conduct	
	forensic analysis of digital activities	
	Analyse system information (e.g. system logs, network traffic, hard	
	disks, virtual memory, etc) for evidence of breaches of security	
	policy or laws	
	Critically analyse software for malware products Evening manifering eveters to identify natential accurity.	
	Examine monitoring systems to identify potential security	
	breaches	
	Analyse system information for evidence of breaches of security	
	policy	

	Report and escalate suspicious traffic/activities in a timely	
	manner	
	Take appropriate and proactive action to secure information assets	
	from any potential threats identified by forensic analysis until such	
	time as these threats are mitigated	
	With supervisors authorisation, seize evidence in accordance with	
	legal guidelines and in the most effective manner to minimise	
	disruption to the business and maintaining evidential weight	
	Identify and follow information governance processes as relating	
	to information systems and information in relation to own area of work	
	Correctly use processes, tools and techniques relevant to	
	information governance as appropriate to own work	
	Comply with all relevant IT strategies, policies and governance	
	decisions in own area of work	
	Correctly provide specified information on information governance	
	to others	
	Assist in the completion and storage of specified records relating	
	to the effectiveness of IT strategy, policies and governance	
	Correctly follow all relevant it strategies, policies and governance	
	decisions in own area of work	
Assist in	Assist recording of assets in an asset management and tracking	
information	system	
security audit	Conduct a range of basic information security audit activities	
activities	accurately and in a timely manner, under the direction of seniors	
	Accurately gather and collate the findings from security audit	
	activities, assisting seniors with the identification and prioritisation of issues and risks arising	
	Clearly and objectively report the results and findings from audit activities to supervisors	
	Assist with the communication and review of the results and	
	findings from information security audits with accountable owners	
	Assist others with the action planning resulting from any particular information security audit	
	Plan and schedule information security audits and reviews	
	Conduct information security audits to assess security compliance within the organisation's networked information system	
	environment, under supervision	

Implement and follow organisational policies, processes, and	
standards that exist for information security audit activities	
Objectively review the findings from information security audit	
activities, identifying and prioritising of issues and risks arising	
Clearly and objectively report the results and findings from	
information security audit activities to seniors	
Clearly record, report and communicate the results and findings	
from information security audits with accountable owners	
Develop clear and accurate action plans resulting from any	
particular information security audit	
Be fully accountable for undertaking complex, accurate	
information security audits on all types of information systems	
Develop, implement and maintain audit plans, processes,	
procedures, methods, tools and techniques for information security	
activities and their deliverables	
Lead and manage an audit team to conduct complex technical	
audits, prioritising resource allocation and capability management	
for information security audit activities	
Use the results from risk and vulnerability assessments to inform	
audit activities	
Implement organisational logging and documentation standards to	
comply with audit requirements	
Clearly and accurately define the scope of information security	
audit activities	
Advise and guide others on all aspe <mark>cts of</mark> information security	
audit activities and their deliverables	
Clearly and effectively communicate information security audit	
results to a wide range of sponsors, stakeholders and other	
individuals	
Be fully accountable for information security audit	
Define the information security audit strategy, policies and	
standards	
Develop plans for risk-based audit coverage of the organisations	
information systems for inclusion in audit planning	
Ensure audit coverage is sufficient to provide the business with full	
assurance of adequacy and integrity	
Oversee the development of the audit planning and review process	
Monitor the quality and effectiveness of information security	
audit activities, critically reviewing the approach and process, and	
making recommendations for improvement where appropriate	
Design procedures, tools and techniques relating to information	
security audit activities	

Provide timely and objective advice and guidance to others on	
all aspects of information security audit activities including best	
practice and the application of lessons learned	
Authorise the issue of formal reports to management on the	
effectiveness and efficiency of information security control	
mechanisms	
Direct resource allocation and professional development strategy	
for information security audit activities	
Provide thought leadership on the discipline of information	
security audit, contributing to internal best practice and to	
externally recognised publications, white papers etc	

ANNEX A.11: ICT PROJECT MANAGEMENT

Requirement	Indicator	Comp	liance
		YES	NO
Follow	Correctly follow the procedures, tools and techniques relating to		
procedures	project inception and scoping activities		
and assist	Fully comply with all organisational strategic objectives, policies		
with project	and standards relating to project inception and scoping activities		
inception	Operate at all times with reference to the project lifecycle		
and scoping	Assist others in the identification of the scope of any particular		
activities	project		
	Assist others in maintaining the Terms of Reference/Project		
	Charter/Project Definition Document for any particular activity of		
	the project		
	Correctly use strategy, policies, and standards relating to project		
100	inception and scoping activities		
	Effectively implement the procedures, tools, techniques and plans		
	relating to the inception and scoping activities for any particular		
	project		
	Ensure the confidentiality, integrity and security of all information		
	during project inception and scoping activities		
	Effectively manage the alignment of inception and scoping		
	activities for any particular project with the project lifecycle		
	Provide all deliverables from project inception and scoping		
	activities for any particular project to those individuals and/or		
	groups responsible for the next phase of activity		
	Be accountable for own contribution to the completion of all		
	inception and scoping activities for any particular project		

	and scoping activities for any particular project, including	
	specifically the accuracy, completeness, and currency of its defined scope	
	Correctly identify what roles and responsibilities need to be	
	assigned and fulfilled within any particular project activities	
	Correctly identify the potential implications for business	
	operations arising from the deliverables of project or programme	
	inception and scoping activities	
	Effectively negotiate the scope, success criteria, assumptions	
	and constraints for any particular programme with sponsors,	
	stakeholders and other internal external individuals and bodies	
	Provide all necessary deliverables from project inception	
	and scoping activities for any particular programme to those	
	individuals and/or groups responsible for the next phase of activity	
	Be accountable for the completion of all inception and scoping activities for any particular programme	
	Take effective, specific and timely action in the event of inception	
	and scoping activities for any particular programme not supporting	
	the business and/or project objectives and needs	
	Provide timely and objective advice and guidance to others on all	
	aspects of programme inception and scoping activities including	
	best practice	
	Be fully accountable for the quality and effectiveness of the	
	inception and scoping activities for any particular programme and	
	for the accuracy, completeness and currency of the defined scope	
	it	
Document	Accurately document the business objectives scope assumptions	
initiation	and constraints of any particular project	
and scoping		
activities		

Accurately document the Terms of Reference/Project Charter/	
Project Definition Document for any particular project	
Critically interpret and accurately document all information that	
has been collected during inception and scoping activities for any	
particular project	
Accurately document decisions made during inception and scoping	
activities for any particular project	
Provide in a timely manner information contained within an agreed	
Terms of Reference/Project Charter/Project Definition Document	
for any particular project to internal and external individuals and	
groups	
Participate in analysing information about the business objectives	
that any particular project needs to support and/or deliver	
Participate in verifying the accuracy, currency, completeness,	
and relevance of information collected, used, and produced by	
inception and scoping activities for any particular project	
Correctly identify what information needs to be gathered, used	
and documented during project inception and scoping activities	
and what needs to be included in any project Terms of Reference/	
Project Charter/Project Definition Document	
Accurately gather all of the information required to define the	
success criteria assumptions and constraints relating to any	
particular project	
Verify the accuracy, currency, completeness, and relevance of	
information collected, used and produced by inception and scoping	
activities for any particular project	
Present the proposed Terms of Ref <mark>erence</mark> /Project Charter/Project	
Definition Document for any particular project, clearly and in a	
timely manner to sponsors, sta <mark>keholder</mark> s and other internal and	
external individuals and groups	
Accurately maintain the Terms of Reference/Project Charter/	
Project Definition Document for any particular project as it	
undergoes review and is agreed/signed off	
Secure the sign off of the Terms of Reference/Project Charter/	
Project Definition Document for any particular project	
Clearly communicate the scope, success, criteria, assumptions,	
and constraints of any particular project to sponsors, stakeholders	
and other internal/external individuals and bodies	
Confidently and persuasively present the proposed Terms of	
Reference/Project Charter/Project Definition document for any	
particular project to sponsors, stakeholders and internal and	
external individuals and groups	

Provide clear, accurate and timely information, contained within an agreed Terms of Reference/Project Charter/Project Definition document, for any particular programme to internal and external individuals and groups as required		
Accurately source and collate all the relevant information required to scope any particular programme, under direction		
Correctly gather all the information that needs to be included in a Terms of Reference/Project Charter/Project Definition document for any particular programme, under direction		
Accurately document the business objectives for any particular programme, the scope of it and the projects that need to be included within it, under guidance		
Critically review the Terms of Reference/Project Charter/Project Definition Document produced by others in a timely manner		
Correctly identify whether the activities to be undertaken constitute a programme, the scope of it and the projects that need to be included within it under guidance		
Verify the business objectives and needs that any particular programme needs to support and/or deliver, that the scope of a programme meets them and that these are fully reflected in any Terms of Reference/Project Charter/Project Definition Document produced		
Correctly select and actively engage the sponsors of, and stakeholders for, any particular programme during project inception and scoping activities		
Routinely monitor the alignment of inception and scoping activities for any particular programme with the business objectives and needs, any relevant business change activities, and with the project lifecycle		
Critically analyse and make decisions on the results from monitoring inception and scoping activities for any particular programme, reporting issues and status to senior sponsors, stakeholders, and internal/external individuals and bodies as and when required		
Proactively engage and involve sponsors and stakeholders for any		
particular project during project inception and scoping activities		
Verify that the scope of a project meets the business objectives		
Definition Document produced for it		
	an agreed Terms of Reference/Project Charter/Project Definition document, for any particular programme to internal and external individuals and groups as required Accurately source and collate all the relevant information required to scope any particular programme, under direction Correctly gather all the information that needs to be included in a Terms of Reference/Project Charter/Project Definition document for any particular programme, under direction Accurately document the business objectives for any particular programme, the scope of it and the projects that need to be included within it, under guidance Critically review the Terms of Reference/Project Charter/Project Definition Document produced by others in a timely manner Correctly identify whether the activities to be undertaken constitute a programme, the scope of it and the projects that need to be included within it under guidance Verify the business objectives and needs that any particular programme needs to support and/or deliver, that the scope of a programme meets them and that these are fully reflected in any Terms of Reference/Project Charter/Project Definition Document produced Correctly select and actively engage the sponsors of, and stakeholders for, any particular programme during project inception and scoping activities Routinely monitor the alignment of inception and scoping activities for any particular programme with the business objectives and needs, any relevant business change activities, and with the project lifecycle Critically analyse and make decisions on the results from monitoring inception and scoping activities for any particular programme, reporting issues and status to senior sponsors, stakeholders, and internal/external individuals and bodies as and when required Proactively engage and involve sponsors and stakeholders for any particular project during project inception and scoping activities Verify that the scope of a project meets the business objectives and needs of an organisation and the accuracy, complete	an agreed Terms of Reference/Project Charter/Project Definition document, for any particular programme to internal and external individuals and groups as required Accurately source and collate all the relevant information required to scope any particular programme, under direction Correctly gather all the information that needs to be included in a Terms of Reference/Project Charter/Project Definition document for any particular programme, under direction Accurately document the business objectives for any particular programme, the scope of it and the projects that need to be included within it, under guidance Critically review the Terms of Reference/Project Charter/Project Definition Document produced by others in a timely manner Correctly identify whether the activities to be undertaken constitute a programme, the scope of it and the projects that need to be included within it under guidance Verify the business objectives and needs that any particular programme needs to support and/or deliver, that the scope of a programme meets them and that these are fully reflected in any Terms of Reference/Project Charter/Project Definition Document produced Correctly select and actively engage the sponsors of, and stakeholders for, any particular programme during project inception and scoping activities for any particular programme with the business objectives and needs, any relevant business change activities, and with the project lifecycle Critically analyse and make decisions on the results from monitoring inception and scoping activities for any particular programme, reporting issues and status to senior sponsors, stakeholders, and internal/external individuals and bodies as and when required Proactively engage and involve sponsors and stakeholders for any particular project during project inception and scoping activities Verify that the scope of a project meets the business objectives and needs of an organisation and the accuracy, completeness, and currency of a Terms of Reference/Project Charter/Project

Critically analyse information about the business objectives, success criteria, assumptions and constraints and the range of business functions activities and tasks to be included within its scope in order to produce an accurately worded Terms of Reference/Project Charter/Project Definition Document	
Objectively review the business objectives, proposed scope assumptions and constraints for any particular project, under direction	
Critically analyse the potential implications of the scope, success criteria, assumptions and constraints of any particular project	
Regularly monitor the progress of the inception and scoping activities for any particular project interpreting and reporting findings to sponsors, stakeholders, and other internal and external individuals and groups, as directed	
Design effective strategy, policies, standards, procedures, tools and techniques relating to the inception and scoping activities for any particular project	
Design effective and meaningful governance mechanisms and plans for any particular programme	
Produce clearly worded Terms of Reference/Project Charter/ Project Definition Document including accurate definitions of the business objectives, proposed scope and assumptions and constraints for any particular programme	
Design, implement and maintain effective strategy, policies and standards relating to the inception and scoping activities for programmes	
Correctly identify the success criteria, other performance targets and range of organisational and geographical elements that need to be included in any programme	
Make well reasoned decisions on when and how to use external providers of inception and scoping services selecting the preferred organisations and negotiating/contracting with them accordingly on behalf of the organisation	
Correctly select and effectively negotiate governance mechanisms for any particular programme with sponsors, stakeholders, other internal external individuals and bodies during project inception and scoping activities	
Correctly identify and clearly communicate the potential implications for business strategy and/or the operating model arising from the deliverables of project or programme inception and scoping activities to senior sponsors, stakeholders and other internal and external individuals and groups	

Identify and	Design effective and meaningful governance mechanisms and	
develop project	plans for any particular project	
implementation	Accurately identify what needs to be included in any Terms of	
criteria and	Reference/Project Charter/Project Definition Document for a	
governance	particular project	
mechanisms	Correctly identify when, and how, to use external providers of	
	project inception and scoping services and which ones should be used, making timely proposals for their use to relevant people	
	Effectively negotiate the scope, success criteria, assumptions, constraints and governance mechanisms for any particular project	
	with sponsors, stakeholders and other internal external individuals	
	and bodies	
Carry out	Correctly follow the procedures, tools and techniques relating to	
project planning	project planning and scheduling activities	
and scheduling	Fully comply with all organisational strategy, policies and	
activities	standards relating to project planning and scheduling activities	
	Operate at all times with reference to the business and project	
	objectives, the project lifecycle and project governance	
	Operate at all times with reference to 'real world' factors that will	
	apply to project planning and scheduling activities	
	Correctly use and apply all relevant information produced by prior	
	phases of any particular project	
	Correctly use information contained within a Gantt chart and	
	critical path analysis (CPA) chart for a particular project	
	Correctly select the procedures, tools and techniques to use in	
	project or programme planning and scheduling activities	
	Correctly select and critically interpret all information required to	
	produce the baseline plan and schedule for any particular project	
	Correctly break down the work associated with the business	
	objectives and project scope into phases, activities and tasks	
	accurately, estimate their duration and allocate resources to them	
	appropriately	
	Correctly apply appropriate levels of contingency and tolerances to	
	any particular project plan	
	Ensure that the sponsors of, and stakeholders for, any programme	
	are fully engaged and involved during project planning and	
	scheduling activities	
	Correctly identify the critical path for any particular project	
	Ensure that the baseline project plan is signed off by appropriately	
	authorised individuals prior to further activity commencing	

	Effectively manage the progress of planning and scheduling	
i	activities for any particular project, reporting issues and status in a	
	timely manner to all sponsors, stakeholders and other individuals	
	and groups involved in its delivery and/or impacted by it	
	Handover all relevant project planning and scheduling deliverables	
	to those individuals responsible for the next phase of activity	
	Be fully accountable for own contribution to the completion of all	
	planning and scheduling activities for any particular project	
	Correctly identify strategy, policies and standards relating to	
	project planning and scheduling activities, under direction	
	Gather, collate and use all relevant information about individuals	
	who may fill roles for any particular project	
	Make objective and well reasoned decisions on the relative	
	priority of activities and tasks within plans and schedules for any	
	particular project, under guidance of others	
	Make timely and clear decisions on project planning and	
	scheduling issues and risks and how they will be resolved, under	
	direction	
	Manage any potential changes to scope during planning and	
	scheduling activities for any particular project, under the guidance	
	of others	
	Be fully accountable for the quality an <mark>d e</mark> ffectiveness of the	
	planning and scheduling activities for any particular project	
	Accurately source and collate all relevant project deliverables	
	from individual projects that constit <mark>ute an</mark> y particular programme,	
	as directed	
	Accurately source and correctly apply all deliverables produced	
	from earlier phases of any par <mark>ticular pr</mark> ogramme, under direction	
	Correctly identify the relationships and dependencies between	
	individual projects and/or between phases, activities and tasks	
	within individual projects in any particular programme	
	Correctly break down the work associated with the business	
	objectives and programme scope into phases, activities and tasks	
	accurately, est <mark>imate their du</mark> ration and allocate resources to them	
	appropriately	
	Correctly apply appropriate levels of contingency and tolerances to	
	any particular programme plan	
	Ensure that the baseline programme plan is signed off by	
	appropriately authorised individuals prior to further activity	
	commencing as directed	
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	Effectively manage the progress of the planning and scheduling activities for any particular programme, gaining resolution to identified issues and risks and regularly reporting status to sponsors, stakeholders and internal and external individuals and groups Implement and maintain the procedures, tools, and techniques	
	relating to project planning and scheduling activities for any	
	particular project	
	Provide all relevant deliverables from project planning and scheduling activities for any particular programme on to those individuals and/or groups responsible for the next phase of activity in a timely manner	
	Be fully accountable for the completion of all planning and	
	scheduling activities for any particular programme	
	Correctly select the individuals who need to be involved in the	
	management and leadership of programme activities and tasks	
	Make well-reasoned and timely decisions on the relative priority of	
	projects activities and tasks within the plans and schedules for any	
	particular programme	
	Provide timely and objective advice and guidance to others on all aspects of programme planning and scheduling activities including best practice	
	Correctly identify opportunities to opt <mark>imise</mark> the effectiveness of the plans and schedules for any particular programme	
	Make clear objective and timely decisions on the actions to be taken in the event of programme planning and scheduling activities not supporting the business and programme objectives	
	Be fully accountable for the quality and effectiveness of the planning and scheduling activities for any particular programme	
Source, document and communicate	Correctly source all deliverables produced from earlier phases of any particular project during project planning and scheduling activities	
relevant information relating to project planning	Correctly source and collate all relevant information that needs to be included in a plan/schedule and associated deliverables for any particular project	
and scheduling activities	Accurately document the work breakdown, organisational breakdown, structures and milestones for any particular project	
	Accurately document the phases activities and tasks within any particular project their relationships and any internal and external dependencies	

Communicate clearly and accurately the baseline plans and	
schedules associated with any particular project to all individuals	
who may be impacted by its delivery	
Provide information contained within a baselined Gantt chart	
and critical path analysis (CPA) chart for any particular project to	
internal and external individuals and groups as required	
Verify the accuracy, currency, completeness and relevance of all	
information collected used and produced by project planning and	
scheduling activities	
Correctly recognise and correct errors in project plans and	
schedules and optimise their efficiency where possible	
Accurately document and maintain the baseline Gantt chart and	
critical path chart for any particular project together with any	
associated planning and scheduling deliverables	
Correctly identify and clearly report, the implications for any	
particular project plan of internal and external factors such	
as budget the business and project objectives, timescales and	
resources	
Clearly and accurately communicate the baseline plans and	
schedules associated with any particular project to all sponsors,	
stakeholders and internal and external individuals and groups	
involved in its delivery	
Verify the planning assumptions, estimates, interdependencies,	
contingency and tolerance levels to be used for any particular	
project	
Verify that that the plans and schedules for any particular project	
meet the business and project objectives	
Routinely monitor the progress of the planning and scheduling	
activities for any particular p <mark>roject, de</mark> aling with issues as they	
arise and taking action in the event of project planning and	
scheduling activities not supporting the business and/or project	
objectives	
Manage the expectations of sponsors, stakeholders and other	
internal and external individuals and groups, during the planning	
and scheduling activities for any particular project guided by	
others	
Effectively negotiate project plans and schedules with sponsors,	
stakeholders and internal and external individuals and groups as	
appropriate under the guidance of others	
Accurately document the work breakdown, organisational	
breakdown, structures and milestones for any particular	
programme as directed	
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	Accurately document the relationships and dependencies between	
	individual projects and/or between phases, activities and tasks	
	within individual projects in any particular programme as directed	
	Accurately document all of the phases, activities and tasks and	
	their relationships within any particular programme as directed	
	Verify the accuracy, currency, completeness and relevance of all	
	information collected, used, and produced by programme planning	
	and scheduling activities, under the guidance of others	
	Ensure that all the sponsors of, and stakeholders for, any project	
	are fully engaged and involved during programme planning and	
	scheduling activities and that their expectations are managed	
	throughout the planning and scheduling	
	Accurately document and routinely maintain the baseline Gantt	
	chart and critical path chart (CPA) for any particular programme	
	together with any associated planning and scheduling deliverables	
	under direction	
	Correctly identify and clearly report the implications of any	
	particular programme plan for internal and external factors such	
	as budget, the business and project objectives, timescales and	
	resources, under direction	
	Effectively review and routinely report the quality and	
	effectiveness of planning and scheduling activities for any	
	particular programme	
	Verify the relationships and dependencies between individual	
	projects and/or between phases act <mark>ivities</mark> and tasks within	
	individual projects in any particula <mark>r progr</mark> amme	
	Critically review the baseline Gantt chart CPA chart and other	
	planning deliverables for any pa <mark>rticular</mark> programme	
	Objectively review the implications for any particular programme	
	plan of internal and externa <mark>l factors s</mark> uch as the business and	
	programme objectives, budget, timescales, and resources	
	Effectively negotiate programme plans and schedules with	
	sponsors, stakehol <mark>ders, and inte</mark> rnal and external individuals and	
	groups, as appropriate	
Identify project	Correctly identify any opportunities to optimise the effectiveness	
implementation	of the plan and schedule for any particular project under the	
gaps	guidance of others	
	Provide clear and specific advice and guidance to others on the	
	appropriate levels of contingency and tolerance to be applied to	
	projects based on own experience and best practice guidelines	
	Design effective procedures, tools and techniques relating to project planning and scheduling activities for any particular project	
	project planning and senedoting detivities for any particular project	

	Correctly select and critically interpret, all information required to produce the baseline plan and schedule for any particular programme under guidance of others Correctly identify when and how to source specialised planning, scheduling and estimating expertise required to support the planning and scheduling activities for a particular programme,	
	taking action to source it when required Optimise the programme plan, challenging assumptions and internal and external factors that impede or impair it where appropriate and making adjustments to it in order to meet business and/or programme objectives more effectively Design, implement and maintain, effective strategy, policies	
	and standards relating to project and programme planning and scheduling activities Correctly identify the potential implications for business strategy and/or the operating model arising from the deliverables of project or programme planning and scheduling activities	
	Make well reasoned decisions on when and how to use external providers of project and programme planning and scheduling services, selecting the preferred providers and negotiating/contracting with them accordingly on behalf of the organisation	
Follow procedures and carry out activities relating	Correctly follow the procedures, tools and techniques relating to project and programme execution, monitoring and control activities Fully comply with all organisational strategy, policies and	
to project execution, monitoring and	standards relating to project and programme execution, monitoring and control activities Operate at all times with reference to the business and project	
control	objectives, the project lifecycle and project governance during project and programme execution, monitoring and control activities	
	Operate at all times with reference to the authority of the project manager during project and programme execution, monitoring and control activities	
	Operate at all times with reference to 'real world' factors that will apply during project and programme execution, monitoring and control activities	
	Correctly identify what tasks and activities have been allocated to own work, schedule when they have to be completed, and what effort should be invested in their completion Correctly select the procedures, tools and techniques to use in	
	project execution, monitoring and control activities	

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	Select and apply the most appropriate style of project	
	management for the execution and delivery activities of any	
	particular project	
	Effectively manage changes issues and risks during execution and	
	delivery activities for any particular project	
	Correctly identify and accurately report slippage against	
	baseline plans and schedules for any particular project, selecting	
	appropriate action to take in order to respond to its impact on the	
	project's progress	
	Correctly apply project plan contingency and tolerances, within	
	which the project can retain autonomy as and when required,	
	correctly identifying when the project is likely to deviate from them	
	and escalating to relevant people accordingly	
	Effectively manage the progress of any particular project against	
	business and project objectives, baseline plans and schedules,	
	milestones, success criteria and other performance targets and	
	metrics	
	Clearly communicate the specific needs of any particular project	
	from sponsors, stakeholders, internal and external individuals and	
	groups, to ensure successful delivery during execution and delivery	
	activities under the guidance of others	
	Be fully accountable for the completio <mark>n of</mark> all own execution,	
	monitoring and control activities for any particular project	
	Assemble, mobilise and motivate the project team during project	
	execution and delivery activities, communicating the allocation	
	of activities and tasks and the inter <mark>depen</mark> dence of roles and	
	responsibilities required to delive <mark>r any pr</mark> oject's aims and	
	objectives	
	Effectively implement, maintain and correctly use strategy,	
	policies, and standards rela <mark>ting to pr</mark> oject execution, monitoring	
	and control activities	
	Correctly identify whe <mark>n, and how, t</mark> o use external providers of	
	project execution and delivery services, who are providers of these	
	services, and w <mark>hich ones to u</mark> se, under the guidance of others	
	Effectively manage the expectations of sponsors, stakeholders	
	and other internal and external individuals and groups, during the	
	execution and delivery activities for any particular project	
	Identify clear and specific actions that may be taken in the event	
	of execution, monitoring and control activities for any particular	
	project being inaccurate, inadequate, incomplete or inappropriate	

	Make reasoned and appropriate decisions to keep any particular	
	project progressing to plan within agreed project contingency and	
	tolerances, under the guidance of others	
	Agree all decisions made during execution, monitoring and control	
	activities for any particular project with relevant people prior to	
	their authorization	
	Diplomatically negotiate how to respond to, and mitigate against,	
	slippage and/or unplanned changes to a project baseline plan and	
	schedule with sponsors, stakeholders and internal and external	
	individuals and groups	
	Be fully accountable for the quality and effectiveness of the	
Н	execution, monitoring and control activities for any particular	
	project in meeting business and project objectives	
	Correctly select the procedures, tools, and techniques to use in	
	programme execution, monitoring and control activities	
	Correctly source all deliverables produced from earlier phases of	
	any particular programme, including any relevant project delivery	
	and execution deliverables from individual projects that are part of	
	the programme	
	Provide in a timely manner, all relevant deliverables from	
	programme execution, monitoring and control activities for	
7	any particular programme to those ind <mark>ivid</mark> uals and/or groups	
	responsible for the next phase of activ <mark>ity a</mark> s directed	
	Effectively manage the progress of any particular project against	
	business and project objectives, bas <mark>eline</mark> plans and schedules,	
	milestones, success criteria and o <mark>ther pe</mark> rformance targets and	
	metrics, taking action where nec <mark>essary t</mark> o keep it on track against	
	requirements, under direction	
	Make timely and appropriate decisions in the event of a project	
	deviating from its agreed contingency and tolerance levels	
	Provide timely and objective advice and guidance to others on all	
	aspects of project exe <mark>cution, mon</mark> itoring and control activities	
	including best practice	
	Assemble, mobilise and motivate the programme team during	
	programme execution and delivery activities, communicating the	
	allocation of activities and tasks and the interdependence of roles	
	and responsibilities required to deliver any programme's aims and	
	objectives	
	Ensure that all sponsors of, and stakeholders for, any particular	
	programme are engaged and involved during programme	
	execution, monitoring and control activities	

Effectively manage the motivation levels and performance of	
internal and external individuals and groups on a programme	
Effectively manage the progress of any particular programme	
against business and programme objectives, baseline plans and	
schedules, milestones, success criteria and other performance	
targets and metrics, taking action where necessary to keep it on	
track against requirements	
Effectively manage planned and unplanned changes to a	
programme, using change control mechanisms, applying approved	
changes to it and identifying and taking action in the event of	
slippage to ensure the most successful outcome under the	
guidance of others	
Be fully accountable for the completion of all execution,	
monitoring and control activities for any particular programme	
Effectively implement and maintain all strategy, policies and	
standards relating to the programmes execution, monitoring and	
control activities	
Tactfully and sensitively manage the expectations of sponsors,	
stakeholders and other internal and external individuals and groups	
during the execution and delivery activities for any particular	
programme	
Make well informed and timely decisions to keep any particular	
programme progressing to plan within agreed programme	
contingency and tolerances	
Negotiate diplomatically and effectively on how to respond	
to, and mitigate against, slippage and/or unplanned changes	
to a programme baseline plan and schedule with sponsors,	
stakeholders and internal and external individuals and groups	
Secure sign off to the deliverables from programme execution,	
monitoring and control activities in a timely manner from sponsors,	
stakeholders and other individuals	
Negotiate and contract effectively with external providers	
of project and programme monitoring and control services	
and external providers of project and programme execution	
and delivery services as and when required, on behalf of the	
organization	
Be fully accountable for the quality and effectiveness of the	
execution, monitoring and control activities for any particular	
programme and the success of any particular programme in	
meeting business and programme objectives	

Source and document relevant	Correctly source and collate all deliverables produced from earlier phases of any particular project so that they may be used to inform	
information, and report	and direct execution and delivery activities Correctly identify and accurately report, relevant information	
on, project execution	about the amount of effort that has been invested in any particular project task and activity during a specified period of time, and the	
and delivery activities	effort required to complete any particular project task assigned to self	
	Correctly use timesheets in order to record what work has been completed by self in any specified period of time and the effort required to complete it	
	Correctly identify, collate and accurately document any potential changes proposed to the baseline plan for any particular project	
	Accurately document any planned and unplanned changes that may impact on any particular project's execution and delivery activities	
	Accurately source and collate all information that needs to be included in project execution and delivery progress reporting	
	Accurately document decisions made during any particular project's execution and delivery activities and proposals for the next phase of activity	
	Effectively implement all relevant monitoring and control mechanisms for any particular project's execution and delivery activities	
	Verify the accuracy, currency, completeness and relevance of all information collected by monitoring and control activities for any particular project	
	Clearly communicate the business aims and objectives of any particular project to all sponsors, stakeholders, internal and external individuals and groups involved in its delivery and to all individuals and groups who may be impacted by it	
	Provide all relevant deliverables from project execution, monitoring and control activities for any particular project to those individuals and/or groups responsible for the next phase of activity	

Document results and routinely report the status to sponsors, stakeholders and internal and external individuals and groups

Correctly select the procedures, tools and techniques to use in

Ensure appropriate monitoring and control mechanisms are in place to measure the progress of a project against plan and criteria

involved in project monitoring and control activities

project monitoring and control activities

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	Routinely monitor the impact on project execution and delivery of	
	any changes to plans and schedules, reporting accurately and in a	
	timely manner to sponsors, stakeholders and internal and external	
	individuals and groups	
	Regularly monitor the quality and effectiveness of execution,	
	monitoring and control activities for any particular project, under	
	the guidance of others	
	Make clear and timely decisions on the results provided by	
	monitoring any particular project's execution, monitoring and	
	control activities	
	Correctly identify when and how to implement monitoring and	
	control activities for any particular programme, what information	
	is required to monitor and control it and the frequency with which	
	monitoring control and reporting activities will take place, under	
	the guidance of others	
	Implement and maintain all relevant monitoring and control	
	mechanisms for any particular programme's execution and delivery	
	activities	
	Verify the accuracy, currency, completeness and relevance of	
	information collected by monitoring and control activities for any	
	particular programme or projects within it	
	Clearly communicate the business aims and objectives of any	
	particular programme and how it will <mark>be m</mark> onitored and controlled	
	to all sponsors, stakeholders, interna <mark>l and</mark> external individuals and	
	groups involved in its delivery, and to all individuals and groups who	
	may be impacted by it, under the g <mark>uidanc</mark> e of others	
	Routinely monitor the progress o <mark>f any pa</mark> rticular programme	
	against business and programm <mark>e objec</mark> tives, baseline plans and	
	schedules, milestones, succe <mark>ss criteri</mark> a and other performance	
	targets and metrics, reporting its status regularly to sponsors,	
	stakeholders and internal and external individuals and groups	
	Proactively report any deviation from a programme's agreed	
	contingency and tolerance levels and possible failure of a	
	programme to sponsors, stakeholders and internal and external	
	individuals and groups, so that timely decisions may be made	
	Critically review the deliverables from execution and delivery	
	activities for any particular programme so that they may be	
	submitted for sign off by sponsors, stakeholders, internal and	
	external individuals and groups as appropriate	

Identify and	Design and develop effective strategy, policies, standards,	
apply actions to progress	procedures, tools and techniques relating to the execution,	
project	monitoring and control activities for programmes	
execution	Correctly identify the potential implications for business strategy	
and control	and/or the operating model arising from the deliverables of	
activities	programme execution and delivery activities	
	Correctly identify the actions that may be taken in the event of	
	execution and delivery activities for any particular programme not	
	supporting the business and/or programme objectives	
	Negotiate proposed changes to a programme's baseline plan	
	or schedule to mutually agreeable conclusions with sponsors,	
	stakeholders and internal and external individuals and groups	
	Make well reasoned decisions on when to re-baseline a	
	programme plan	
	Provide timely and objective advice and guidance to others on all	
	aspects of programme execution, monitoring and control activities	
	including best practice	
	Design and develop effective strategy, policies standards,	
	procedures, tools and techniques relating to project execution,	
	monitoring and control activities	
	Optimise the execution of a programme's activities and tasks	
	and the allocation of all resources within it based on criteria for	
	delivery and available resources	
	Re-baseline any particular programme, where necessary, securing	
	sign off to it from sponsors, stakeholders, and other individuals and	
	groups, under the direction of others	
	Produce clear and specific plans for the completion phase of any	
	particular programme under the direction of others	
	Effectively negotiate proposed changes to a project baseline plan	
	or schedule with sponsors, stakeholders and external bodies	
	Correctly identify any potential changes proposed to the baseline	
	plan for any particular programme	
	Re-baseline any particular project where necessary, seeking sign	
	off from sponsors, stakeholders and other individuals and groups	
	Produce clear and specific plans for the completion phase of any particular project	
Project		
Project acceptance	Correctly follow the procedures, tools and techniques relating to	
criteria	project completion, acceptance, and review activities	
	Fully comply with all organisational strategy, policies and	
	standards relating to project and programme completion,	
	acceptance and review activities	

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	Operate at all times with reference to project governance in project completion, acceptance and review activities	
	Operate at all times with reference to relevant acceptance, quality,	
	risk and financial criteria in project completion, acceptance and	
	review activities	
	Correctly identify who needs to be involved in the review and	
	acceptance of any particular project	
	Correctly identify when a project has been completed and whether	
	or not it has been successful	
	Be fully accountable for the quality and effectiveness of own tasks	
	during project completion, acceptance and review activities	
	Correctly identify who needs to sign off the final deliverables from	
	any particular project	
	Ensure that all outstanding actions required to meet project	
	acceptance criteria are resolved during project completion	
	activities, taking action to address the needs of those individuals	
	who will use and support its deliverables	
	Effectively negotiate the final acceptance criteria and the final	
	closure date for a project with sponsors, stakeholders and external	
	bodies	
	Correctly implement, and clearly present, the final project	
	deliverables for any particular project	
	Close down a completed project in a t <mark>imel</mark> y manner, releasing all	
	internal and external resources	
	Provide in a timely manner, all final deliverables from any	
	particular project to other individu <mark>als and</mark> groups involved in	
	project support management, an <mark>d review</mark> activities within the	
	organisation and outside it as required	
	Correctly select the strategy, policies, standards, procedures,	
	tools and techniques to use in project completion, acceptance and	
	review activities	
	Make objective and timely decisions in the event of a potential	
	project failure, managing the implications and consequences of	
	any subsequent failure	
	Make clear and timely decisions to keep project completion,	
	acceptance and review activities progressing to plan, and as to	
	when a project will be completed and when/how it will be closed	
	Be fully accountable for the success or failure of any particular	
	project and the quality and effectiveness of completion,	
	acceptance and review activities applied to it	

Correctly use the strateg	y, policies, standards, procedures, tools	
and techniques relating	o programme, completion, acceptance	
and review activities		
Accurately identify the ra	ange of actions required in the event of	
failure of any particular p	programme	
Ensure that all business	changes such as organisational	
structures, roles and res	consibilities and business procedures	
required to support the f	nal programme deliverables are in place	
Effectively negotiate the	final closure date of any particular	
programme		
Effectively implement ar	ny particular programme and its	
associated final delivera	bles	
Effectively manage the a	lignment of programme completion,	
acceptance and review a	ctivities with business and programme	
objectives		
Effectively manage the t	imely completion and closedown of any	
particular programme		
Provide all final deliveral	oles from any particular programme,	
to other individuals and g	roups involved in programme support	
management and review	activities within the organisation and	
outside it as required		
Be fully accountable for	the quality an <mark>d ef</mark> fectiveness of	
programme completion,	acceptance a <mark>nd r</mark> eview activities for any	
particular programme		
Take timely and effective	measures <mark>in the</mark> event of the failure of	
any particular programm	e or any o <mark>f the pr</mark> ojects within it	
Make timely decisions as	s to whe <mark>n a prog</mark> ramme will be completed	
and authorise the final c	osure <mark>date of a</mark> programme	
Provide timely and objec	tive <mark>advice an</mark> d guidance to others on	
all aspects of programm	e completion, acceptance and review	
activities, including best	practice and the application of lessons	
learned		
Negotiate and contract e	ffectively with external providers of	
project and programme of	completion, acceptance and review	
services, as and when re	quired, on behalf of the organization	
Be fully accountable for	the success or failure of any particular	
programme		

Source,
document and
provide relevant
information
on project
completion,
acceptance
and review
activities

Accurately source and collate information that needs to		
he included in preject completion, consultance and review		
be included in project completion, acceptance and review		
documentation		
Accurately gather all relevant information that will be required		
during a project review		
Accurately gather all relevant information from a project review		
Accurately document any outstanding issues and actions from a		
completed project, including any that need to be handed over after	r	
the completion of a project to other internal individuals groups		
and/or external providers		
Provide all relevant information contained from project		
completion, acceptance and review activities for any particular		
project to internal and external individuals and groups as required		
Verify the accuracy, currency, completeness and relevance of		
information collected, used, and produced by project completion,		
acceptance and review activities		
Schedule a timely project review for any particular project		
Routinely monitor and report the progress of project completion,		
acceptance, and review activities		
Objectively analyse all relevant information relating to the		
experiences of, and satisfaction levels with, the project from		
those individuals who were involved in its delivery, and from those		
who will who will use the deliverables in order to inform project		
completion, acceptance, and review activities		
Accurately use all relevant information relating to the business		
objectives, including the business/benefits case, that may be		
used to assess the effectiveness <mark>of any particular project's final</mark>		
deliverables and outcomes		
Clearly present the overall pe <mark>rformanc</mark> e of a project against		
objectives, success criteria <mark>, baseline</mark> plan, schedules, and		
business/benefits case to sponsors, stakeholders, and other		
individuals and groups		
Conduct an effecti <mark>ve and object</mark> ive project review for any particula	nr	
project, comm <mark>unicating the fi</mark> ndings to sponsors, stakeholders,		
external bodies and other individuals		
Ensure that that the final deliverables of any particular project		
are subject to independent audit, sourcing independent audit		
resources where necessary, and that any findings are clearly		
communicated to sponsors, stakeholders, external bodies and		
other individuals		

Correctly source and collate all relevant information relating to the	
business objectives, including the business/benefits case that may	
be used to assess the effectiveness of any particular programme's	
final deliverables and outcomes, as directed	
Accurately gather, and concisely document, all relevant	
information relating to decisions taken during programme	
completion, acceptance and review activities	
Accurately gather, and concisely document, all relevant	
information relating to the final outcomes and deliverables from	
any particular programme for review by sponsors, stakeholders and	
external bodies	
Verify the accuracy, currency, completeness and relevance	
of information collected, used, and produced by programme	
completion, acceptance and review activities	
Routinely monitor and report the progress of programme	
completion, acceptance and review activities	
Communicate clearly, and in a timely manner, programme	
completion to a wide range of sponsors, stakeholders, external	
bodies and other individuals	
Communicate clearly, and in a timely manner, programme success	
or failure and its implications and consequences to a wide range of	
sponsors, stakeholders, external bodies and other individuals	
Conduct an objective and timely review for any particular	
programme	
Ensure that the final deliverables of any particular programme are	
subject to independent audit, under guidance of others	
Make well judged decisions to improve the quality and	
effectiveness of any particular project or programme's completion,	
acceptance and review activities	
Objectively review the overall performance of a programme against	
objectively review the overall performance of a programme against objectives, success criteria, baseline plan, schedules and business/	
benefits case reporting findings to sponsors, stakeholders and	
external bodies	
Routinely monitor the quality and effectiveness of handover	
arrangements for the deliverables of a programme to those	
individuals who will use or support them after completion, review	
and acceptance Clearly report (communicate the findings from any independent	
Clearly report/communicate the findings from any independent	
review of a completed programme to sponsors, stakeholders,	
external bodies, and other individuals	

Project	Correctly identify any issues and actions that need to be handed	
Handover	over after the completion of a project or programme, to individuals	
	and/or external providers who will be supporting the final project	
	deliverables	
	Correctly identify and successfully agree with all relevant	
	individuals what issues and actions need to be handed over to	
	internal and external providers, who will support the deliverables of	
	any particular project	
	Effectively negotiate the handover arrangements for the	
	deliverables of a project with those individuals and/or external	
	providers who will support them	
	Effectively manage the handover of all deliverables from any	
	particular project to the individuals who will use and/or support	
	them	
	Routinely monitor the quality and effectiveness of project	
	completion, acceptance and review activities for any particular	
	project	
	Critically analyse and review final project deliverables and	
	outcomes against objectives, plans, schedules, budgets, business/	
	benefits case and other criteria to assess whether it has been	
	successful, reporting the overall performance to sponsors,	
	stakeholders, and external bodies	
	Effectively negotiate final deliverables and outcomes from any	
	particular project and the handover arrangements for it where	
	necessary with sponsors, stakeholders, external bodies and other	
	relevant individuals	
	Clearly communicate project success or failure and its	
	implications and consequences to a wide range of sponsors,	
	stakeholders, external bodies and other individuals	
	Design, document and effectively negotiate the final acceptance	
	criteria for a programme with sponsors, stakeholders and external	
	bodies	
	Correctly identify the potential implications for business strategy	
	and/or the operating model, arising from the deliverables and	
	outcomes of project or programme completion, acceptance and	
	review activities	
	Design and develop effective strategy, policies, standards,	
	procedures, tools and techniques relating to the completion,	
	acceptance and review activities for programmes	
	Effectively negotiate the final deliverables and outcomes from	
	any particular programme, where necessary, with sponsors,	
	stakeholders, external bodies and other individuals	

Follow and comply with project risk management procedures and standards

Separate project Risk management Required

Correctly follow the procedures, tools and techniques relating to	
project risk management activities	
Fully comply with all organisational strategy, policies and	
standards relating to project risk management activities	
Operate at all times with reference to project governance in	
project risk management activities	
Correctly identify potential risks associated with a particular	
project, reporting them to relevant people in a timely manner	
Implement the risk register for any particular project under the	
guidance of others	
Correctly identify information from other risk registers within the	
wider business context that may be relevant to a particular project	
Correctly implement and accurately document, effective plans and	
actions to manage/treat risks on a particular project	
Effectively manage the alignment of risk management activities,	
with business and project or programme objectives for a particular	
project	
Proactively manage actions to mitigate/control all risks that arise	
during the life of a particular project	
Gain timely sign off to plans and actions to mitigate/control risks	
for a particular project from sponsors, stakeholders and other	
internal and external individuals, and bodies as appropriate	
Take proactive action to mitigate/control all risks that arise during	
the life of a particular project where possible	
Correctly select, implement and maintain the strategy, policies,	
procedures, tools and techniques <mark>relating</mark> to project risk	
management activities	
Agree all risk management ap <mark>proaches</mark> , decisions, activities for a	
particular project under the <mark>guidance</mark> of others	
Correctly identify the risks for a particular project that require the	
highest degree of atte <mark>ntion, based</mark> on analysis of the probability	
and impact of potential risks	
Correctly identify the range of actions that may be used to	
mitigate/control risks associated with a particular project and	
those which may be used to respond to risks that are realised and	
impact on it	
Ensure that all individuals involved in a project understand their	
personal responsibilities in respect of project risk management	
Make clear and timely decisions on the priority and category of	
potential risks based on information relating to their probability	
and impact on a particular project	

Make objective and well reasoned decisions on those risks for	
which controls and mitigation are to be applied for a particular	
project, those for which no controls or mitigation exist	
Take decisive and timely action in the event of risks being	
realised and impacting on a particular project's activities, or risk	
management activities not supporting the business and project/	
programme objectives	
Provide timely and objective advice and guidance to others on best	
practice in project risk management and the application of lessons	
learned	
Be fully accountable for the successful management of	
a particular project's risks, including the implications and	
consequences of risks that are realised and any failure to mitigate/	
control them	
Advise the programme manager of any potential risks on a	
programme during its life	
Authorise all risk management approaches, actions, decisions,	
activities for a particular project	
Make timely and objective decisions on the findings from	
independent review of risk management activities for a particular	
project	
Provide timely and objective advice an <mark>d gu</mark> idance to others on all	
aspects of project risk management a <mark>ctivi</mark> ties	
Implement, maintain and effectively <mark>apply</mark> strategy, policies, plans,	
standards, procedures, tools and tec <mark>hniqu</mark> es relating to programme	
risk management activities	
Implement the risk register for a <mark>program</mark> me and ensure that it is	
regularly reviewed, refreshed a <mark>nd updat</mark> ed	
Make rational and timely de <mark>cisions on</mark> the priority and category	
of potential risks based o <mark>n informatio</mark> n relating to probability and	
impact for a programme	
Take decisive and timely action to mitigate/control risks that arise	
during the life of a programme	
Agree all actions taken to address risk on a programme	
Effectively manage the implications and consequences of a	
programme failing to meet the expectations of the business for the	
management of risk	
Take decisive and timely action in the event of risks being	
realised and impacting on a programme's activities, and/or risk	
management activities not supporting the business and project/	
programme objectives	

	Provide timely and objective advice and guidance to others on all	
	aspects of programme risk management activities, including best	
	practice and the application of lessons learned	
	Be fully accountable for the successful management of a	
	particular programme's risks, including the implications and	
	consequences of risks that are realised and the failure to mitigate/	
	control them	
Source,	Accurately gather and collate relevant information about all risks	
document and	that may impact on a particular project	
provide relevant	Accurately source relevant information in order to assess and	
information relating to	analyse the priority probability category and potential impact of	
project risk	each risk to a particular project	
management	Regularly gather accurate, current and relevant information	
activities and	required to create maintain and update risk registers	
assist with the	Proactively advise the project manager of any potential risks that	
risk register	may arise and impact on the project during its life	
	Take action to report in a timely manner, risks that are not being	
	acknowledged or managed within a project as appropriate	
	(whistleblow)	
	Assist others in documenting the risk register for a particular	
	project	
	Assist others in sourcing information from other risk registers	
	within the wider business context that may be relevant to a	
	particular project	
	Assist others in providing information contained within a particular	
	project's risk registers to individuals involved in risk management	
	activities, within the wider business context	
	Regularly review a particular project, to ensure that newly	
	emerging risks are identified in a timely manner	
	Critically interpret all relevant information relating to the	
	probability and impact of potential risks to a particular project, in	
	order to determine their priority and category	
	Critically analyse the implications and consequences of failure	
	to mitigate/control risks that arise during the life of a particular	
	project	
	Accurately document, and clearly present, the risks to which	
	controls and mitigation have been applied for a particular project,	
	those which no effective controls or mitigation exist and those for which no mitigating action will be taken Ensure that risk registers are regularly reviewed, refreshed and updated for a particular project	

Routinely report the number, priority and category of risks that	
arise during the life of a particular project, their implications	
and potential impact to sponsors, stakeholders and internal and	
external individuals and bodies	
Report when and how, risk mitigation/control plans and activities	
have been actioned on a particular project and the outcome of	
these actions to sponsors, stakeholders and other internal and	
external individuals and bodies	
Provide all relevant information contained within a particular	
project's risk registers, to individuals involved in risk management	
activities within the wider business context, and to external	
providers of risk management services to projects and	
programmes as appropriate	
Accurately document and clearly communicate, the deliverables	
from and lessons learned, associated with a particular project's	
risk management activities, to all sponsors, stakeholders and	
external bodies	
Critically analyse the degree of risk posed by individual risks during	
the life of a programme, and the implications and impact of any	
risks to a programme's activities as directed	
Verify the accuracy, currency, completeness and relevance of	
information collected used and produ <mark>ced</mark> by risk management	
activities for a particular project	
Objectively analyse, and clearly present, the findings from	
independent review of risk management activities for a particular	
project to sponsors, stakeholders and external bodies	
Correctly identify and accurately source/collate all relevant	
information from the busines <mark>s case, fo</mark> r a programme relating to	
risk assumptions and othe <mark>r risk regist</mark> ers within the wider business	
context that may be relevant to a programme	
Accurately document the risk register for a programme, including	
information relating to the priority category probability and likely	
impact of any potential risks under direction	
Accurately document when and how risk mitigation/control	
plans and activities have been actioned on a programme, and the	
outcome of these risk mitigation/control actions as directed	
Regularly review a particular project to ensure that newly	
emerging risks are identified in a timely manner	

Review,
analyse and
communicate
relevant
information
relating to
project or
programme risk
management
activities

Verify the accuracy, currency, completeness and relevance of all information collected, used and produced by programme in management activities Critically analyse the implications and consequences of failure mitigate/control risks that arise during the life of a programme of risks that have been realised on a programme's activities. Present clearly and in a timely manner the plans and actions proposed to mitigate/control risks during the life of a program. Routinely review and report the number priority and category risks that arise during the life of a programme and the degree risk posed by them taking appropriate action on the findings a required. Proactively report when and how risk mitigation/control plan activities have been actioned on a programme and the outcome from these actions to sponsors stakeholders and other internance and external individuals and bodies as required. Proactively communicate the role and importance of risk management activities to all individuals involved with a programme. Regularly review a particular programme to ensure that newle emerging risks are identified in a timely manner. Regularly monitor the alignment of programme risk management activities with business and project and programme objective. Routinely monitor the effectiveness of plans and actions take mitigate/control risks on a programme's activities.	re to ne and mme of e of as s and me	
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Routinely monitor the effectiveness of plans and actions take	nent	
	s	
mitigate/control risks on a programme's activities	en to	
Ensure that timely and effective independent risk review and	audit	
of the risk management activitie <mark>s of a pa</mark> rticular programme	takes	
place		
Make effective and timely de <mark>cisions to</mark> improve the quality		
and effectiveness of project and programme risk managemen	nt	
activities within an organization		
Objectively analyse the findings from independent review of		
programme risk management activities to sponsors stakehol	ders	
and external bodies in order to inform actions decision makin	g and	
lessons learned		

Design strategy,	Correctly identify and source, risk management expertise/	
procedures and	resources to advise and guide on project risk management	
plans relating	activities	
to project risk	Design strategy, policies, plans, standards, procedures, tools and	
management	techniques relating to risk management activities for a particular	
activities and	project	
gain sign off	Gain sign off from sponsors, stakeholders and internal and external	
for actions to	individuals and bodies to plans and actions to mitigate/control	
control risks for	risks for a programme, and to plans and actions required in the	
a programme -	event of risks being realised and impacting on its activities	
(To be	Design effective strategy, policies, standards, procedures, tools and	
taken to the	techniques relating to programme risk management activities for	
proposed risk	programmes	
management	Correctly identify the potential implications of programme risks on	
framework)	the wider business operations and business strategy	
	Negotiate and contract effectively with external providers of risk	
	management services as and when required on behalf of the	
	organization	
Follow and	Correctly follow the procedures, tools and techniques relating to	
comply with	project quality management activities	
project quality management	Fully comply with all organisational str <mark>ate</mark> gy, policies and internal/	
procedures and	external standards relating to project <mark>and p</mark> rogramme quality	
standards	management activities	
	Operate at all times with reference to project governance in	
	project quality management activit <mark>ies</mark>	
	Operate at all times with reference to any relevant internal/	
	external quality management sy <mark>stems t</mark> hat may apply to a project's	
	activities	
	Correctly identify own resp <mark>onsibilities</mark> in respect of project quality	
	management	
	Identify and report in a timely manner any potential quality issues	
	and/or failings within a project to relevant people	
	Correctly apply all the information contained within the quality	
	plan for any particular project in order to discharge own	
	responsibilities	
	Be fully accountable for the quality of own deliverables produced	
	for any particular project	
	Correctly apply the strategy, policies and the project lifecycle as	
	they relate to project quality management activities	

Correctly apply lessons learned from previous project quality	
management activities to own responsibilities in respect of project	
quality management	
Implement appropriate and specific quality plans, standards,	
criteria and a quality management system for a project	
Correctly identify and effectively implement the procedures, tools	
and techniques relating to project quality management activities	
Correctly use the relevant procedures, tools and techniques to	
conduct quality assurance reviews on the activities during a	
project	
Make clear and timely decisions on the 'quality ethos' required	
by any particular project taking action to implement and	
communicate it within the project under guidance	
Effectively manage the quality standards within a project, taking	
timely and decisive action to identify and resolve the root causes	
of quality failings, resolve quality failings and to assure the quality	
of final deliverables and outcomes	
Gain timely sign off to the quality plan and the quality of project	
outcomes and deliverables from any external bodies and/or	
individuals involved in their assessment and authorization	
Be fully accountable for the effectiveness of quality management	
activities and for the quality of the fin <mark>al de</mark> liverables and outcomes	
of any particular project, under direct <mark>ion</mark>	
Correctly identify the potential implications of quality issues	
and/or failings from any particular project on the wider business	
operations and/or business strategy	
Authorise quality standards to be applied to project deliverables	
and decisions and actions taken during any particular project, to	
maintain quality standards	
Make timely, and well-reasoned decisions on the results provided	
by monitoring project quality management activities, and the	
findings provided from independent quality audit and/or quality	
assurance reviews on any particular project	
Take effective and timely action in the event of project quality	
management activities not supporting the business, and/or project	
objectives being inadequate, incomplete or incorrect	
Provide timely and clear advice and guidance to others on all	
aspects of project quality management activities, including best	
practice	

	particular project	
	assumptions that is contained within the business case for a	
	Correctly identify all the information relating to quality	
	management activities within the wider organization	
	within any particular project to individuals involved in quality	
	Provide all information relating to quality management activities	
	management activities	
	Accurately document all the decisions taken during project quality	
	project	
	quality management systems that may apply to the activities of a	
S. Itolia	Accurately document all relevant quality criteria standards and	
Criteria	particular project	
Assessment	to quality assumptions contained within the business case for a	
Project Quality	of any particular programme Accurately source and collate all relevant information relating	
	activities, and for the quality of the final deliverables and outcomes	
	Be fully accountable for the effectiveness of quality management	
	other programmes	
	lessons learned may be applied to the quality management of	
	Provide timely and clear advice and guidance to others on how	
	or incorrect	
	objectives and/or their deliverables being inadequate, incomplete	
	management activities not supporting the business and/or project	
	Take decisive and timely action in the event of programme quality	
	relevant quality criteria and standards	
	in the standards of quality achieved by a programme against	
	Make effective and well-reasoned decisions in the event of failure	
	event of failure to meet of the standards of quality required	
	not supporting the business and/or project objectives, and/or in the	
	may be taken in the event of project quality management activities	
	Make timely and objective decisions on the plans and actions that	
	and/or individuals involved in their assessment and authorization	
	programme outcomes and deliverables from any external bodies	
	Gain timely sign off to the quality plan and the quality of	
	and to assure the quality of final deliverables and outcomes	
	resolve the root causes of quality failings, resolve quality failings	
	programme, taking timely and decisive action to identify and	
	Effectively manage the quality standards within any particular	

	Accurately gather all relevant information relating to quality	
	criteria standards and quality management system that may apply	
	to the activities of a project	
	Accurately source and collate all the relevant information to	
	create a quality plan, criteria standards, and a quality management	
	system for any particular project	
	Accurately document the strategy, policies, procedures, tools and	
	techniques relating to project quality management activities	
	Accurately document the approach to quality adopted within any	
	particular project	
	Clearly and accurately document the implications of applying	
	and maintaining the required levels and standards of quality on a	
	project's financials/costs and timescales	
	Clearly and accurately document the implications and	
	consequences of quality issues and failings within any particular	
	project	
	Clearly document and critically analyse all relevant information	
	relating to the expectations and assumptions of quality within any	
	particular project	
	Accurately and concisely document the quality plan for any	
	particular project	
	Accurately gather and document information relating to the level	
	and standard of quality achieved by t <mark>he fin</mark> al deliverables and	
	outcomes from any particular project	
Communicate	Provide, in a timely manner, the quality plan for any particular	
relevant	project to sponsors, stakeholder <mark>s and ot</mark> her internal and external	
information relating to	individuals and bodies	
project quality	Communicate clearly with all individuals involved in quality	
management	management activities within the wider organisation on all matters	
activities	relating to quality management within any particular project	
	Correctly identify and clearly present the implications of applying	
	and maintaining the required levels and standards on a project's	
	financials/costs and timescales of quality	
	Verify the accuracy, currency, completeness and relevance of	
	all information collected, used, and produced by project quality	
	management activities Reutingly maniter the alignment of project quality management	
	Routinely monitor the alignment of project quality management activities with business and/or project objectives, and with the	
	quality plan, standards, criteria, and quality management system,	
	reporting issues and/or failings to sponsors, stakeholders and	
	internal and external individuals and bodies	

Schedule and conduct regular quality assurance reviews for any particular project and ensure that independent quality audits are also conducted at appropriate intervals	
Advise the programme manager of any potential quality issues on a programme during its life	
Clearly and accurately document the approach to quality plan roles and responsibilities of individuals, and the decisions taken in respect of quality management activities for any particular programme, under direction	
Communicate the quality plan, standards criteria, and quality management system for a project to sponsors, stakeholders as appropriate	
Communicate effectively with individuals involved in quality management activities within the wider organisation, on all matters relating to quality management within any particular programme	
Correctly identify when and how to conduct independent quality audits on any particular project, sourcing appropriate internal and/ or external quality management expertise/resources to carry them out	
Objectively review the quality plan produced for any particular project and the quality of its final project deliverables and outcomes	
Routinely monitor the alignment of programme quality management activities with business and/or programme objectives, and with the quality plan, standards criteria, and quality management system, reporting issues and/or failings to sponsors, stakeholders and internal and external individuals and bodies	
Schedule and conduct regular quality assurance reviews for any particular programme and ensure that independent quality audits are also conducted at appropriate intervals	
Accurately and clearly document the results from independent quality audits and/or quality assurance reviews for any particular programme	
Provide all relevant information, as appropriate, to external individuals and/or bodies responsible for assessing and authorising the quality of any relevant programme deliverables and outcomes	
Critically review the findings from independent quality audits and quality assurance reviews on any particular project making timely and appropriate decisions on them	
Objectively review the quality plan produced for any particular programme, recommending any necessary action as a result	
Correctly identify when and how to conduct independent quality audits on any particular programme, soliciting and engaging appropriate internal/external expertise in quality management activities to carry them out	

	Routinely monitor the effectiveness of quality management	
	activities to assure appropriate standards of quality within	
	a programme, reporting quality issues and/or failures and	
	the subsequent actions taken to resolve them to sponsors,	
	stakeholders and other internal and external individuals and bodies	
	Clearly present the findings from independent quality audits	
	and quality assurance reviews for any particular programme to	
	sponsors, stakeholders and other internal and external individuals	
	and bodies	
Develop	Develop appropriate and specific quality plans, standards criteria	
quality plans,	and a quality management system for a project	
standards and	Make clear and objective decisions on how the quality plan,	
criteria for a	standards criteria, and quality management system will be	
project	implemented within a project	
	Clearly define roles and responsibilities in respect of project	
	quality management, and identify the most appropriate individuals	
	who will be responsible for undertaking them	
	Provide timely and clear advice and guidance to others on how	
	lessons learned may be applied to the quality management	
	activities of other projects	
	Design effective procedures, tools and techniques to conduct	
	project and programme quality assurance reviews	
	Make clear and timely decisions on the 'quality ethos' to be	
	adopted within any particular programme effectively implementing	
	and communicating it	
	Make clear and objective decisions on how the quality plan,	
	standards criteria, and quality management system will be	
	implemented within any particular programme	
	Clearly define roles and responsibilities in respect of programme	
	quality management and identify the most appropriate individuals	
	who will be responsible for undertaking them	
	Develop and implement effective quality plans, standards criteria,	
	and any quality management system for a programme	
	Design effective and appropriate strategy, policies, plans,	
	standards, procedures, tools and techniques relating to project and	
	programme quality management activities Correctly identify the natestial implications of quality issues and/	
	Correctly identify the potential implications of quality issues and/	
	or failings from any particular programme on the wider business	
	operations and/or business strategy	
	Correctly select who will be accountable for quality management	
	activities within a particular programme	

	Negotiate and contract effectively with external providers of	
	quality management services as and when required, on behalf of	
	the organisation	
Follow and	Correctly follow the procedures, tools and techniques relating	
comply with	to project and programme infrastructure and configuration	
project and	management activities	
programme	Fully comply with all relevant and applicable legislation,	
infrastructure and	regulations and standards relating to project and programme	
configuration	infrastructure and configuration management activities	
management	Operate at all times with reference to project governance as it	
activities	relates to project infrastructure and configuration management	
	activities	
	Operate at all times with reference to the needs and requirements	
	of the project manager in respect of project infrastructure and	
	configuration management activities for any particular project	
	Correctly identify own responsibilities in respect of complying	
	with project infrastructure and configuration management	
	requirements	
	Correctly use the project infrastructure and environments,	
	configuration items, shared resources and facilities provided to	
	support any particular project	
	Correctly apply own delegated authority levels for project	
	infrastructure and configuration management activities within any	
	particular project	
	Be personally accountable for complying with all the internal	
	administration procedures and practices that are in place within any particular project	
	Implement the policies and standards relating to project	
	infrastructure and configuration management activities together	
	with the procedures, tools and techniques to be used by individuals	
	in order to comply with the project's operational practices and to	
	use its infrastructure, configuration items and shared resources	
	Source/collate appropriate infrastructure environments,	
	configuration items and shared resources and facilities to support	
	any particular project	
	Implement the project configuration plan for any particular project	
	Ensure the effective use of project infrastructure environments,	
	configuration items and shared resources and facilities provided	
	to project team members by the project office managing the	
	administration of delegated roles and authority levels, and the	
	provision of adequate staffing levels within the project office itself	

Efficiently administer all of the operational procedures required	
during all/any phases of a project managing the provision and	
operation of all necessary infrastructure, configuration items,	
shared resources and facilities required by a project and adapting	
the services provided as needs change during the life of any	
particular project	
Manage the decommissioning and/or disposal of any project	
infrastructure configuration items and shared resources and	
facilities on completion of the project	
Correctly identify the policies, internal/external standards,	
procedures, tools and techniques that will be used to operate,	
administer and manage project infrastructure environments,	
configuration items and shared resources and facilities during the	
life of any particular project	
Correctly select the most appropriate infrastructure environments,	
configuration items, shared resources and facilities that will be	
required for any particular project during its life	
Effectively manage the implications of any shortcomings in the	
services and information provided by the project office to a project	
during all phases of its life	
Take decisive and timely action in the event of project	
infrastructure and configuration management activities	
not supporting the business and/or project objectives being	
inadequate, incomplete or incorrect and/or not meeting the needs	
and expectation of sponsors, stakeh <mark>olders</mark> , the project manager	
and other internal and external indi <mark>vidual</mark> s and bodies	
Provide timely and clear advice a <mark>nd guid</mark> ance to others on all	
aspects of project infrastructure and configuration management	
activities including best practice	
Be fully accountable for the quality and effectiveness of the	
infrastructure and config <mark>uration ma</mark> nagement services provided to	
any particular project	
Correctly identify the services that will need to be provided by	
the project office to support any particular programme and its	
associated projects during their life	
Be fully and personally accountable for complying with all internal	
procedures and practices that operate within any particular	
programme	
Make timely and objective decisions to improve the quality	
and effectiveness of project infrastructure and configuration	
management activities for any particular project	

Effectively implement the policies and standards relating to programme infrastructure and configuration management	
activities	
Effectively implement procedures, tools and techniques relating	
to programme infrastructure and configuration management	
activities	
Manage the efficient provision and operation of all necessary	
infrastructure and configuration items required by a programme,	
adapting and changing the services provided through	
infrastructure and configuration management activities during	
the life of any particular programme in order to ensure it is fit for	
purpose	
Accurately identify and present any actions required to deal with	
shortcomings in the services and information provided by the	
project/programme office to a programme, or in their activities	
being incomplete, inadequate, inappropriate or incorrect and/or not	
supporting the business and/or programme objectives	
Take decisive and timely action to deal with shortcomings in the	
services and information provided by the project/programme office	
to a programme, or in their activities being incomplete, inadequate,	
inappropriate or incorrect and/or not supporting the business and/	
or programme objectives	
Be fully accountable for the quality and effectiveness of the	
infrastructure and configuration man <mark>agem</mark> ent services provided to	
any particular programme	
Correctly identify the most appropr <mark>iate ap</mark> proaches to undertake	
infrastructure and configuration management activities for any	
particular programme during its life	
Critically review and authorise the programme configuration plan	
for any particular programme	
Correctly identify the range of delegated roles and authority	
levels that are requi <mark>red within the</mark> project office for any particular	
programme during its life	
Correctly select those individuals who should be allocated to	
specific roles, and have authority levels delegated to them within	
the project/programme office, for any particular programme	
Critically review and make decisions on the approach adopted for	
fulfilling the infrastructure and configuration management needs	
of any particular programme	

	Objectively review and agree the actions required in the event	
	of programme infrastructure and configuration management	
	activities not supporting the business and/or programme	
	objectives	
	Critically review and agree the actions required to deal with	
	shortcomings in the services and information provided by the	
	programme office to a programme during all phases of its life	
	Objectively review and agree the actions required in the event of	
	infrastructure and configuration management activities adopted	
	for any particular programme being incomplete, inadequate,	
	inappropriate or incorrect	
	Provide timely and clear advice and guidance to others on	
	all aspects of programme infrastructure and configuration	
	management activities, including best practice	
Source,	Source accurate information required for the creation and	
document, and	maintenance of the project configuration plan	
provide relevant	Accurately gather and collate information that needs to be	
information	documented and stored to support the operation of a project and to	
on, project infrastructure	monitor and report the progress of it during its life	
and	Accurately document all the procedures, tools and techniques	
configuration	to be used by individuals involved in any particular project to	
management	comply with its operational practices and to use its infrastructure	
activities	configuration items and shared resources	
	Correctly maintain and accurately document the administrative	
	arrangements for any particular project, including the project	
	infrastructure and environments, configuration items and shared	
	resources and facilities for use by all individuals during the life of	
	any project	
	Provide timely and accurate information produced by project	
	infrastructure and confi <mark>guration ma</mark> nagement activities to other	
	projects	
	Communicate effectively, and in a timely manner, within the	
	project and also to sponsors, stakeholders and internal and	
	external individuals and bodies in order to ensure the efficient	
	operation of the project	
	Ensure that that the business and project objectives, the project	
	scope and the activities within it are understood prior to planning	
	the infrastructure and configuration to meet the needs of a project	
	Correctly identify the information that will need to be collected,	
	used, stored, managed and distributed by the project office during	
	all/any phases of the project	
	attrany phases of the project	

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	Verify the accuracy, currency, completeness and relevance of	
	all information collected used produced and stored by project	
	infrastructure and configuration management activities for any	
	particular project and that which is provided to the project by the	
	project office	
	Accurately document the security arrangements and delegated	
	authority/access levels for any information administered by the	
	project/programme office for any particular project	
	Accurately document the procedures, tools and techniques	
	to operate, administer and manage project infrastructure and	
	configuration items for any particular project	
	Document and present the project configuration plan for any	
	particular project	
	Clearly and concisely communicate the internal procedures and	
	practices with which all individuals involved in any particular	
	project need to comply	
	Regularly monitor the alignment of project infrastructure and	
	configuration management activities with business and project	
	objectives, reporting findings to sponsors, stakeholders and other	
	internal and external individuals and bodies as appropriate	
	Correctly maintain, and accurately doc <mark>um</mark> ent, the administrative	
	arrangements for any particular progr <mark>amm</mark> e, including the project	
	infrastructure and environments, con <mark>figur</mark> ation items and shared	
	resources and facilities for use by a <mark>ll indiv</mark> iduals during the life of	
	any project	
	Verify the accuracy, currency, completeness and relevance of	
	information collected, used, pro <mark>duced, a</mark> nd stored by programme	
	infrastructure and configurat <mark>ion mana</mark> gement activities for any	
	particular programme	
	Accurately document th <mark>e program</mark> me configuration plan for any	
	particular program <mark>me, including</mark> infrastructure environments,	
	configuration items, shared resources and facilities and the	
	project/p <mark>rogramme office</mark> roles, responsibilities and delegated	
	authority levels within it	
	Ensure that information produced by programme infrastructure	
	and configuration management activities are made available to	
	other projects and programmes	
	Ensure that the business and programme objectives, the	
	programme scope and the activities within it are understood prior	
	to planning the infrastructure and configuration to meet the needs	
	of the programme	

	Present the approach adopted for fulfilling the infrastructure and		
	configuration management needs of any particular programme,		
	together with the programme configuration plan for review by		
	sponsors, stakeholders, internal and external individuals and		
	bodies as appropriate.		
	Routinely monitor the compliance of all individuals involved in		
	a programme with its governance, policies, methods, tools and		
	techniques and with the internal procedures and practices that are		
	put in place by the project/programme office, reporting findings		
	to sponsors, stakeholders, internal and external individuals and		
	bodies as appropriate.		
	Clearly and concisely communicate the status and progress of a		
	programme to sponsors, stakeholders and internal and external		
	individuals and bodies as directed by the Programme Manager.		
	Routinely monitor the quality and effectiveness of the services		
	provided to any programme by the project/programme		
	office, making objective and timely decisions to improve the		
	infrastructure and configuration management activities, and		
	reporting their status and any issues arising to sponsors,		
	stakeholders and other internal and external individuals and bodies		
	as appropriate.		
	Regularly monitor the quality and effectiveness of external		
	providers of programme infrastructure and configuration		
	management services, reporting their performance to sponsors,		
	stakeholders and other internal and external individuals and bodies		
	as appropriate.		
Monitoring	Accurately source, and critically analyse, all the information		
and Evaluation	relating to the business and/or project objectives in order to		
Criteria	determine what this means for the infrastructure environments,		
	configuration items and shared resources and facilities for any		
	particular project	77	
	Objectively analyse all of the information that is required to run		
	the delivery of any particular project during its life on behalf of the		
	Project Manager		
	Routinely monitor the compliance of all individuals involved in a		
	project with its governance policies, methods, tools and techniques		
	and with the internal procedures and practices that are put in		
	place by the project office		
	Critically analyse and agree the most appropriate approach to		
	project infrastructure and configuration management for any		
	particular project		
	Tr. V.		

Develop the project configuration plan for any particular project,	
including project infrastructure and environments, configuration	
items, shared resources and facilities and the most appropriate	
project office roles, responsibilities and delegated authority levels	
within it to support any particular project	
Design the procedures, tools and techniques to be used by	
individuals involved in any particular project to comply with its	
operational practices and to use its infrastructure, configuration	
items and shared resources	
Design the procedures, tools and techniques to operate, administer	
and manage project infrastructure environments, configuration	
items and shared resources and facilities for any particular project	
together with those required to manage communication between	
the project and any sponsors, stakeholders, internal and external	
individuals and bodies	
Authorise the project configuration plan for any particular project	
Develop the programme configuration plan for any particular	
programme, including programme infrastructure and	
environments, configuration items, shared resources and facilities	
and the most appropriate project/programme office roles,	
responsibilities and delegated authority levels within it to support	
any particular programme	
Design and implement effective proc <mark>edure</mark> s, tools and techniques	
to be used by individuals involved in any particular programme to	
comply with its operational practices and to use its infrastructure	
configuration items and shared resources	
Design and implement effective procedures, tools and techniques	
to operate, administer and manage programme infrastructure	
environments, configurat <mark>ion items an</mark> d shared resources and	
facilities for any particular programme together with those	
required to manage communication between the programme,	
any projects withi <mark>n it and any s</mark> ponsors, stakeholders internal and	
external individuals and bodies	
Design effective policies and standards relating to project and	
programme infrastructure and configuration management	
activities	
Design effective contracts for use with external providers	
of project and programme infrastructure and configuration	
management services, selecting then negotiating and contracting	
with them as and when required on behalf of the organization	

Follow and	Correctly follow the procedures, tools and techniques relating to	
comply	project resource management activities	
with project resource management	Fully comply with all relevant and applicable legislation, regulations and standards relating to project and programme resource management activities	
activities	Operate at all times with reference to project governance as it relates to project resource management and administration activities	
	Operate at all times with reference to any applicable organisational procurement/sourcing, commercial and contractual policies, standards and arrangements	
	Correctly use, and accurately document, all the information required to plan the fulfilment of resources for a project	
	Correctly follow the strategy, policies and standards relating to resource management activities for any particular project	
	Negotiate sensitively with individuals involved in the delivery of any particular project on the approaches that may be adopted to fulfil their resourcing requirements	
	Manage the effective deployment of resources allocated to any particular project using the most appropriate providers of internal and external resources, and/or resource management services, to meet the requirements of project activities and tasks	
	Manage the performance of internal and external resources and/or external providers of resource management services to meet the requirements and finances of any particular project	
	Carefully manage any shortcomings in the resources provided to meet the needs of any particular project during all phases of its life	
	Ensure that resources no longer required by a project are terminated, decommissioned or redeployed in a timely manner	
	Implement the resource plan fo <mark>r any pa</mark> rticular project	
	Correctly select the most appropriate providers of internal and external resources and/or resource management services, and the most appropriate resources from within them to meet the requirements of project activities for any particular project	
	Correctly identify and take decisive action to deal with any shortcomings in the resources provided to meet the needs of any particular project during all phases of its life	
	Proactively manage effective relationships between the project and individuals involved in procurement, sourcing and resourcing, and human resource management activities within the wider organisation, and with those internal and external providers offering project resources and/or resource management services to the project	
	Terminate all relevant commercial/contractual arrangements with internal and external providers of resources to a project in a timely manner	

Agree actions taken to improve the quality and effectiveness of resource management activities for any particular project	
Be fully accountable for the quality and effectiveness of internal and external resources allocated to, and deployed on, any particular project, managing them effectively during the life of the project keeping within financial limits	
Correctly implement and maintain the procedures, tools and techniques relating to programme resource management activities	
Make objective and timely decisions on the resource plan for any particular project and on the internal and external providers selected for the supply of resources to it	
Authorise actions taken to improve the quality and effectiveness of resource management activities for any particular project	
Correctly implement the strategy, policies and standards relating to resource management activities for any particular programme	
Objectively analyse information relating to the skills and competencies of internal and external resources who may be allocated to tasks and activities for any particular programme, selecting those who are most appropriate to meet the requirements of programme activities	
Negotiate sensitively with individuals involved in the delivery of any particular programme on the approaches that may be adopted to fulfil their resourcing requirements	
Implement the resource plan for any particular programme	
Manage the effective deployment of resources allocated to any particular programme using the most appropriate providers of internal and external resources and/or resource management services, to meet the requirements of programme activities and balancing the mix of internal and external resources as appropriate	
Proactively manage effective relationships between the programme and individuals involved in procurement, sourcing and resourcing, and human resource management activities within the wider organisation, and with those internal and external providers fulfilling programme resources and/or resource management services to the project	
Effectively manage the performance of internal and external resources and/or external providers of resource management services to meet the requirements and finances of any particular project, routinely monitoring them and reporting progress and issues to sponsors, stakeholders and internal and external individuals and bodies as appropriate	
Correctly identify and take decisive action to deal with any shortcomings in the resources provided to meet the needs of any particular programme during all phases of its life	

	Take timely and specific action to terminate/decommission/ redeploy resources no longer required by a programme, and close all relevant commercial/contractual arrangements with internal and external providers of resources to a programme	
	Be fully accountable for the quality and effectiveness of internal and external resources allocated to, and deployed on, any particular programme managing them effectively during the life of the programme within financial limits	
	Make well reasoned decisions on the internal and external providers selected for the supply of resources to projects and/or programmes, identifying and negotiating with the most appropriate providers of internal and external resources and/or resource management services, to meet the requirements of activities and agreeing contractual arrangements with them	
	Correctly identify any actions required in the event of resource management activities adopted for any particular programme not supporting the business and/or programme objectives or being incomplete, inadequate, inappropriate or incorrect and/or if the resources provided fall short of requirements	
	Take decisive and timely action to deal with any shortcomings in the resources provided to meet the needs of any particular programme during all phases of its life	
	Effectively manage any actions required in the event of resource management activities adopted for any particular programme not supporting the business and/or programme objectives and/or being incomplete, inadequate, inappropriate or incorrect	
	Make objective decisions on the perf <mark>orma</mark> nce of internal and external resources and/or external providers of resource management services in support of the delivery of any particular programme	
	Provide timely and clear advice and guidance to others on all aspects of programme resource management activities, including how lessons learned from other programmes may be applied to the resource management activities of this programme and the use of best practice in programme management	
Source, document, and	Accurately document information about the scope of a project, the tasks and activities within it, and the implications of these on	
provide relevant	resources	
information		
on, project		
resource		
management		
activities		

Correctly gather, accurately collate and use all of the information about the resources required on any particular project	
Accurately document the resource plan for any particular project	
Accurately document which are the most appropriate resources, from any selected internal and external providers, to meet the requirements of project activities for any particular project	
Accurately document which are the most appropriate providers of internal and external resources, and/or resource management services, to meet the requirements of project activities for any particular project	
Correctly source and accurately document all relevant information relating to decisions taken on the resource management activities for any particular project	
Provide the resource plan for any particular project to sponsors, stakeholders and other relevant internal and external individuals and bodies in a timely manner	
Accurately source and correctly apply all relevant information relating to any commercial and contractual arrangements that may need to be considered as part of resource management activities for any particular project	
Verify the accuracy, currency, completeness and relevance of information collected, used and produced by project resource management activities	
Provide, in a timely manner, the findings from any procurement/ sourcing approaches adopted to select resources for any particular project to sponsors, stakeholders and other relevant internal and external individuals and bodies, including individuals involved in procurement sourcing and resourcing and human resource management activities within the wider organisation	
Communicate clearly, and in a timely manner, with both individuals involved in procurement sourcing and resourcing and human resource management activities within the wider organisation, and also with those internal and external providers offering a range of project resources and/or resource management services	
Communicate clearly, who are the internal and external providers of resources and/or resource management services selected to fulfil the needs of a project to sponsors, stakeholders, internal and external individuals and bodies involved with it	
Routinely monitor the progress of the resource plan for any particular project and the alignment of project resource management activities with any resourcing procurement and/ or sourcing strategy, policies and standards within the wider organisation	
Accurately gather and collate all the relevant information from any procurement/sourcing approaches that have been adopted for any particular programme	

	Correctly document all information relating to decisions taken on	
ł	the resource management activities for any particular programme	
	Objectively analyse the findings from any procurement/sourcing	
	approaches adopted in order to select resources for any particular	
	programme, using relevant information concerning external	
	providers of resources and/or resource management services	
	Make recommendations, based on the findings from any	
	procurement/sourcing approaches adopted, to sponsors,	
	stakeholders and other internal and external individuals and bodies	
	Communicate clearly, and in a timely manner, with both with	
	individuals involved in procurement, sourcing and resourcing,	
	and human resource management activities within the wider	
	organisation, and also with those internal and external providers	
	offering a range of programme resources and/or resource	
	management services	
	Routinely monitor and document the progress of the resource plan	
	for any particular programme, and the alignment of programme	
	resource management activities with any resourcing, procurement,	
	and/or sourcing strategy, policies and standards within the wider	
	organisation	
ĺ	Critically review the proposed approaches for fulfilling the	
	resourcing needs of any particular pro <mark>gram</mark> me, agreeing the	
	resource plan as and when appropriate	
	Objectively review the proposed inte <mark>rnal a</mark> nd/or external providers	
	selected to fulfil resourcing requirements of any particular	
	programme, making decisions on the ones that should be used	
	Routinely monitor the quality and effectiveness of resource	
	management activities in support of any particular programme,	
	reporting findings to sponsors, stakeholders and internal and	
	external individuals an <mark>d bodies as a</mark> ppropriate	

Design the	Design effective strategy, policies and standards relating to	
resource plan	resource management activities for projects and programmes	
for a project and identify	Correctly identify when and how to use external providers of	
resource	resources and/or resource management services for any particular	
requirements	programme	
for a	Accurately assess and estimate the resourcing requirements of	
programme	any particular programme	
(To be	Design an effective resource plan for any particular programme,	
taken to he proposed Risk	together with any necessary contractual and commercial	
management	arrangements, relating to internal and external providers of	
Framework)	resources	
	Correctly identify the strategy, policies, standards, procedures,	
	tools and techniques relating to resource management activities	
	for any particular project	
	Design an effective resource plan for any particular project	
	Ensure that any sensitivities, issues and requirements that may	
	impact on how a project can be resourced are clarified prior to	
	planning the fulfilment of project resource needs	
	Accurately assess internal resources and external providers in	
	order to identify whether they can fulfil the resource requirements	
	of any particular project, selecting and gaining sign off to those	
	who can satisfy the needs most effectively	
	Correctly identify the resources required on any particular	
	programme, gathering and accurately collating and documenting	
	the necessary information required to plan fulfilment activities	
	Correctly identify the resources required for any particular project	
	in a timely manner	
	Accurately assess and estimate the resourcing requirements of	
	any particular project	
	Correctly select, and critically analyse, all relevant information	
	required to plan the fulfilment of resources for a project	
	Gain timely sign off to the resourcing approaches and the	
	resourcing plan adopted for any particular project from sponsors,	
	stakeholders and other relevant internal and external individuals	
	and bodies	
	Objectively analyse the findings from any procurement/sourcing	
	approaches adopted in order to select resources for any particular	
	project using relevant information concerning external providers of	
	resources and/or resource management services	

Follow and comply	Correctly follow the procedures, tools and techniques relating to project financial management activities	
with project financial management activities, under	Fully comply with all relevant and applicable legislation, regulations and standards relating to project and programme financial management activities	
supervision	Operate at all times with reference to the business case and project governance as it relates to project financial management activities	
	Correctly identify own personal responsibilities and any financial authority delegated to self and/or others in relation to the financial management activities for any particular project	
	Correctly use any information contained within the project/project phase budget, financial forecasts and financial reports	
	Correctly use any relevant information relating to the financial authorities that are in place for any particular project	
	Be fully accountable for fulfilling own personal responsibilities in respect of the financial management of any particular project	
	Correctly follow the strategy, policies and standards relating to financial management activities for any particular project	
	Correctly identify the actual items of expenditure that need to be incurred within any particular project and the actual expenditure incurred during its life	
	Correctly use all relevant information in order to identify the most appropriate level of financial contingency to apply to any particular project	
	Effectively manage the project budget and all actual expenditure against it during the life of a project maintaining actual expenditure within budget constraints	
	Ensure that appropriate financial treatment is applied to all expenditure items on any particular project, guided as appropriate by internal/external sources of financial expertise	
	Correctly identify the strategy, policies and standards relating to financial management activities for any particular project and	

the most appropriate approach to manage the finances of any

Effectively implement and maintain the procedures, tools and techniques relating to project financial management activities and the appropriate project accounting standards, financial

contingency and financial authorities required for that particular

particular project

project

Correctly identify any necessary actions to deal with expenditure	
overspends and underspends against budgets, forecasts and	
actuals in any particular project/project phase, negotiating the	
use of a project's financial contingency where necessary, with	
sponsors, stakeholders and other internal and external individuals	
and bodies	
Be fully accountable for ensuring a project meets its financial	
objectives/targets and delivers the financial benefits associated	
with it	
Effectively manage the budget and all actual expenditure against	
it during the life of a project, maintaining actual expenditure within	
budget constraints, taking decisive and timely action to deal with	
financial issues and risks and any failings in the management of	
the finances or realisation of the financial benefits	
Correctly identify actions required to address financial issues and	
risks that have been raised by internal and/or external audit and/	
or those required to address any misalignment of project finances	
with all relevant legislation, regulations and external standards	
Make timely and specific decisions on the actions proposed by	
others to deal with any expenditure overspends and underspends	
against budgets and forecasts in any particular project/project	
phase	
Authorise any actions required in the e <mark>vent</mark> of project financial	
management activities not supportin <mark>g the</mark> business and/or project	
objectives, those required to deal wi <mark>th any</mark> expenditure overspends	
and underspends against budgets a <mark>nd for</mark> ecasts, and those	
required to address failings in the management of the finances or	
realisation of the financial benefits	
Take decisive and timely action to address any misalignment of	
project finances with relevant legislation, regulations and external	
standards	
Effectively manage th <mark>e applicatio</mark> n of appropriate financial/project	
accounting policy a <mark>nd standard</mark> s and financial treatments to	
expenditure incurred during the life of any project or programme	
Correctly implement and maintain strategy, policies, plans,	
standards, procedures, tools and techniques relating to programme	
financial management activities	

	inappropriately during project financial management activities	
	Ensure that any sensitive business information is not disclosed	
management	or overspend on a project	
Resource	identify the causes of any actual and/or forecast underspend and/	
Project	Accurately source and collate any relevant information in order to	
	with it	
	objectives/targets and delivers the financial benefits associated	
	Be fully accountable for ensuring a programme meets its financial	
	negotiating and contracting with the most appropriate providers	
	project and programme financial management services, selecting,	
	Correctly identify when and how to use external providers of	
	and/or realise the financial benefits associated with it	
	business, and/or failing to meet its financial objectives/targets,	
	programme failing to meet the financial expectations of the	
	Effectively manage the implications and consequences of a	
	legislation, regulations and externa <mark>l stand</mark> ards	
	and/or any misalignment of programme finances with relevant	
	risks identified on a programme by internal and/or external audit,	
	Take timely and decisive action to address any financial issues and	
	phase	
	budgets and forecasts in any particular programme/programme	
	to deal with expenditure overspends and underspends against	
	Make timely and objective decisions on actions proposed by others	
	regulations and external standards	
	any misalignment of programme finances with relevant legislation,	
	the programme by internal and/or external audit, and/or to address	
	underspends, to deal with financial issues and risks identified on	
	and/or programme objectives, to address overspends and	
	financial management activities not supporting the business	
	Correctly identify actions required in the event of programme	
	standards	
	finances with relevant legislation, regulations and external	
	or those required to address any misalignment of programme	
	risks that have been raised by internal and/or external audit and/	
	Correctly identify actions required to address financial issues and	
	the finances or realisation of the financial benefits	
	financial issues and risks and any failings in the management of	
	and timely action to deal with any overspends and underspends,	
	actual expenditure within budget constraints, taking decisive	
	expenditure against it during the life of a programme, maintaining	
	Effectively manage the programme budget and all actual	

	Accurately gather, collate and document information required	
	to produce the financial reports that need to be prepared for	
	sponsors, stakeholders and other internal and external bodies and	
	individuals during the life of a project	
	Accurately source and collate all relevant information required to	
	compile the final finances and actual financial benefits realised by	
	any particular project once completed	
	Communicate clearly, and in a timely manner, with internal and	
	external financial expertise where appropriate to support project	
	financial management activities	
	Communicate clearly and accurately, with individuals involved	
	in the management of finances and financial/project accounting	
	policies and standards within the wider organisation, on matters	
	relating to a project's finances when requested to do so	
	Accurately gather information relating to the expectations and	
	requirements of the business in respect of the finances and	
	financial benefits associated with any particular project	
	Accurately document the financial authorities that apply within	
	any particular project and the individuals to whom financial	
	authority has been delegated	
	Capture all actual expenditure during the life of any particular	
	project reporting it, together with any causes of actual/forecast	
	project underspends and overspends against budget and forecasts,	
	to sponsors, stakeholders and extern <mark>al bod</mark> ies	
	Maintain accurate records of all fina <mark>ncial t</mark> ransactions incurred on	
	a project	
	Routinely monitor and critically analyse the types of expenditure	
	incurred during the life of a proj <mark>ect</mark>	
	Effectively manage the regular production of financial forecasts	
	and reports during the life <mark>of a projec</mark> t	
	Ensure that all project finances are subject to internal and/or	
	external audit as appr <mark>opriate</mark>	
	Communicate clearly with internal and external audit in respect of	
	all aspects of project finances	
i	Report the project budget, including capital and operating	
	expenditure required for any particular project to sponsors,	
	stakeholders and other internal and external individuals and bodies	

Regularly monitor the alignment of any actual and forecast project expenditure against budget and financial objectives/targets/ benefits, identifying the causes of underspends and overspends, reporting potential financial issues, risks and decisions taken, together with actions taken to address expenditure overspends and underspends	
Critically analyse the implications and consequences of a project failing to meet the financial expectations of the business, and/or failing to meet its financial objectives/targets, and/or realise the financial benefits associated with it, taking decisive and timely action in response	
Clearly present the progress of a project against financial objectives/targets/benefits during its life, negotiating the proposed actions to deal with any expenditure overspends and underspends with all relevant individuals and bodies	
Critically interpret the results gained from monitoring the alignment of project financial management activities with all legislation, regulations, external standards and internal finance governance principles and standards, taking timely and decisive action to deal with any potential and/or actual failing in the management of finances or the realisation of the financial benefits	
Clearly present the final finances and actual financial benefits realised by any particular project, once completed, against its financial objectives/targets and the intended financial benefits to sponsors, stakeholders and internal and external individuals and bodies	
Correctly identify and accurately capture the actual expenditure incurred during the life of any particular programme, regularly monitoring the type of expenditure that has taken place	
Communicate effectively, with all relevant individuals involved in the management of finances and financial/project accounting policies and standards within the wider organisation, on matters relating to any particular programme's finances	
Provide all relevant information relating to the financial transactions associated with a programme to individuals involved in the management of finances and financial/project accounting within an organisation	
Critically review the progress of a project against financial objectives/targets/benefits during its life, the level of actual project expenditure incurred against budget, any actual and/or forecast overspends and underspends and their causes, together with actions proposed to address them	

Review the final finances and actual financial benefits realised	
by any particular project, once completed, against its financial	
objectives/targets and the intended financial benefits	
Regularly monitor the alignment of actual and forecast	
programme expenditure against budget and financial objectives/	
targets/benefits, identifying the causes of any underspends	
and overspends, reporting potential financial issues, risks	
and decisions taken, together with actions taken to address	
expenditure overspends and underspends	
Clearly present the progress of a programme against financial	
objectives/targets/benefits during its life, negotiating the proposed	
actions to deal with any expenditure overspends and underspends	
with all relevant individuals and bodies	
Clearly present the final finances and actual financial benefits	
realised by any particular programme, once completed, against its	
financial objectives/targets and the intended financial benefits to	
sponsors, stakeholders and internal and external individuals and	
bodies	
Routinely monitor and report the quality and effectiveness of	
programme financial management activities	
Objectively analyse the findings from internal and/or external audit	
of programme finances, and the final finances, and actual financial	
benefits realised by any particular programme, once completed,	
against its financial objectives/target <mark>s and</mark> the intended financial	
benefits	
Clearly present the quality and effectiveness of external providers	
of project and programme financi <mark>al man</mark> agement services to	
sponsors, stakeholders and oth <mark>er intern</mark> al and external individuals	
and bodies	
Clearly present the compliance of a programme's finances with	
all relevant legislation, re <mark>gulations</mark> external standards and internal	
financial policy and financial/project accounting standards to	
sponsors, stakeh <mark>olders and oth</mark> er internal and external individuals	
and bodies, as appropriate	
Accurately report the final finances and actual financial benefits	
realised by any particular programme, once completed, to	
sponsors, stakeholders and other internal and external individuals	
and bodies	

Prepare a	Critically analyse the budget required/provided for any particular	
budget and	project during its life, using the financial information contained	
analyse	within the business case and/or other relevant project documents	
financial	for any particular project, together with information about the	
performance	expected/actual financial payback	
for a project	Correctly prepare accurate budgets for any particular project/	
	project phase, documenting any capital and operating expenditure	
	and its expected/actual financial payback	
	Regularly analyse any actual, and/or forecast, overspends and	
	underspends on any particular project/project phase and their	
	causes, in order to inform decision making	
	Correctly select the procedures, tools and techniques to use	
	in project and programme financial management activities,	
	identifying what information is required to compile and maintain	
	financial budgets, forecasts, and actuals for any particular project	
	Correctly identify the required/actual financial payback of any	
	particular project/project phase	
	Develop effective budgets and financial forecasts for any	
	particular project	
	Gain timely sign off to the project budgets, having verified the	
	adequacy and appropriateness of the amounts requested	
	Correctly identify the implications of the finances and the financial	
	benefits associated with any particular project on the wider	
	business operations and/or business strategy	
	Authorise the project budget and make decisions on how financial	
	authorities should be delegated for any particular project	
	Correctly identify the financial payback of any particular	
	programme, the actual expenditure that needs to be incurred, the	
	budget that needs to be in place for it, and the information required	
	to compile and maintain financial budgets, forecasts, and actuals	
	during its life	
	Prepare and gain timely sign off to accurate and appropriate	
	programme budgets, having identified the budgets associated with	
	any projects within it	
	Design effective strategy, policies, external standards relating	
	to financial management activities and the most appropriate	
	approach to manage the finances of any particular programme	
	Design effective project accounting standards, financial	
	contingency and financial authorities for use within any particular	
	project and/or programme	
	project and/or programme	

Critically review and authorise the programme budget, having	
assessed the adequacy and appropriateness of it, together with the	
delegated financial authorities and financial contingency for any	
particular programme	

ANNEX A.12: RISK MANAGEMENT AND BUSINESS CONTINUITY

Requirement	Indicator	Comp	liance
		YES	NO
Contribute	Assist in identifying information assets		
to risk	Identify the sources and nature of risk to information assets and		
assessment	systems		
activities, under	Undertake a security risk assessment for non-complex systems		
supervision	under supervision		
	Identify, assess and document the specific risks and threats that		
	may impact on information assets and systems, and provide basic		
	remediation advice, under supervision		
	Review internal and external sources of up to date information to		
	ensure that newly emerging threats and risks are identified in a		
	timely manner		
	Follow an appropriate risk methodology under supervision		
	Regularly review and assess potential threats and vulnerabilities		
	in terms of their risk potential, probab <mark>ility and potential impact on</mark>		
	information assets		
	Clearly and accurately define the scope of any particular risk		
	assessment exercise, validating scope with the information asset		
	owners/business, and recognising the dynamic nature of risk		
	Accurately source, gather and collate information relating to		
	potential risks that may impact on the organisation's information		
	assets, engaging with stakeholders in a professional manner		
	Perform risk assessments that clearly identify and assess		
	potential risks in terms of their probability of occurrence and		
	potential impact on information assets and the business, reporting		
	to supervisors		
	Analyse the identified risks to assess vulnerability and impact		
	to determine whether they are within the business specified risk		
	tolerance levels		
	Make recommendations as to the specific actions that should be		
	applied to mitigate risks and escalate risks that are outside agreed		
	risk tolerance levels		

	Communicate the outcomes of risk assessments effectively	
	Be fully accountable for undertaking accurate security risk	
	assessments on all types of information systems	
	Develop, implement and maintain plans, processes, procedures,	
	methods, tools and techniques for risk assessment activities and	
	their deliverables	
	Clearly and accurately define the scope of risk assessment	
	activities in line with business requirements, conducted by self and	
	others adjusting the process to suit specific contexts	
	Clearly and accurately define the scope of risk assessment	
	activities in line with business requirements, conducted by self and	
	others adjusting the process to suit specific contexts	
	Monitor the quality and effectiveness of risk assessment activities,	
	critically reviewing the risk assessment approach and process and	
	making recommendations for improvement where appropriate	
	Advise and guide others on all aspects of security activities and	
	their deliverables	
	Communicate risk assessments and their deliverables to a wide	
	range of sponsors, stakeholders and other individuals	
Assist risk	Apply the agreed range of management controls that are used to	
management	mitigate information security risks within the business context,	
under direction	under direction	
	Review and apply security risk management plans and	
	recommended actions	
	Review risks against the stated risk tolerance levels and act in a	
	timely manner to mitigate/control or escalate risks that exceed	
	tolerance levels as appropriate	
	Follow the internal strategy and policies and internal/external	
	standards relating to risk management activities	
	Take proactive action to manage all risks that arise during the life	
	of particular information assets under the guidance of supervisors	
	Review and use the strategy, policies, procedures tools and	
	techniques relating to information security risk management	
	activities	
	Correctly identify and assist in the development of a risk	
	contingency plan for a non complex system, based upon analysis of	
	the probability and impact of potential risks to that system Correctly identify the range of response actions that may be used	
	Correctly identify the range of response actions that may be used	
	to mitigate risks	

Take decisive and timely action in the event of risks being realised	
and impacting the integrity of information systems	
Contribute to the development and maintenance of risk	
management plans used to mitigate risks in accordance with	
relevant internal and external standards	
Review and apply relevant external standards and legislation for	
risk management	
Objectively analyse and clearly present the findings from risk	
management activities to sponsors, stakeholders and external	
bodies	
Implement, maintain and effectively apply strategy, policies,	
plans, standards, procedures, tools and techniques relating to risk	
management activities	
Clearly and accurately define the scope of risk management	
activities	
Make recommendations on which risk management controls	
should be applied to mitigate risks, making decisions where	
appropriate	
Provide timely and objective advice and guidance to others on all	
aspects of risk management activities	
Monitor the implementation and execu <mark>tion</mark> of risk management	
plans used to mitigate risks that exce <mark>ed ris</mark> k tolerance levels	
Critically monitor the quality and effe <mark>ctive</mark> ness of risk	
management activities, taking actio <mark>n to a</mark> ddress issues where	
appropriate	
Manage and prioritise resource allocation and capability	
management for information security risk management activities	
ensuring that appropriate trai <mark>ning is in</mark> place	
Define the information sec <mark>urity risk a</mark> ssessment and management	
strategy, policies and st <mark>andards</mark>	
Design procedures, t <mark>ools and tec</mark> hniques relating to risk	
assessment and management activities	
Be fully accountable for successful information security risk	
assessment and management	
Correctly identify the potential implications of emerging risks on	
the wider business operations and business strategy	
Provide timely and objective advice and guidance to others on all	
aspects of risk assessment and management frameworks and	
activities including best practice and the application of lessons	
learned	

	Direct resource allocation and professional development strategy	
	for information security risk assessment and management	
	activities	
	Make effective and timely decisions to improve the quality and	
	effectiveness of risk assessment and management activities	
	within an organisation	
	Provide thought leadership on the discipline of risk assessment	
	and management, contributing to internal best practice and to	
	externally recognised publications, white papers etc	
Carry out	Correctly carry out specified own role and responsibilities during	
specified	disaster recovery planning and real life disaster recovery scenarios	
IT disaster	Correctly follow the processes, tools and techniques relating to	
recovery	disaster recovery activities.	
activities	Comply with all legislation, regulations and external standards,	
	policies, procedures and guidelines that impact on disaster	
	recovery activities and their deliverables	
	Comply fully with all organisational requirements for business	
	continuity and all strategy, policies and standards relating to	
	disaster recovery activities	
	Correctly use information and data contained within configuration	
	and other operational documents in order to establish the	
	interdependencies between IT/technology systems, services and	
	assets, in order that it may inform disaster recovery activities	
	Document and provide, accurate and timely information on	
	disaster recovery plans, tests and 'dry runs' to other individuals	
	involved in business continuity management activities within the	
	organization	
	Advise and guide others on suitable disaster recovery options	
	to meet the business nee <mark>ds to restor</mark> e individual IT/technology	
	systems, services and assets	
	Critically interpret the information and data contained within	
	configuration and other operational documents in order to	
	establish the interdependencies of IT/technology systems,	
	services and assets	
	Verify the accuracy, currency, completeness and relevance of all	
	relevant information collected, used produced and stored during	
	disaster recovery activities	
	Correctly follow disaster recovery plans in order to conduct	
	tests, dry runs and execute action in real life disaster scenarios,	
	documenting the results and outcomes	

Apply relevant and applicable learning from disaster recovery	
testing and dry runs in order to improve the effectiveness of	
disaster recovery plans	
Design, develop, manage and monitor the operation of appropriate	
and comprehensive disaster recovery tests and 'dry runs' that are	
sufficiently well constructed to provide an accurate, current and	
complete reflection of a real life scenario, presenting the findings	
to sponsors, stakeholders and other individuals	
Regularly and rigorously monitor the alignment of disaster	
recovery plans with business continuity management plans and all	
relevant legislation, regulations and external standards, reporting	
issues to superiors where appropriate	
Verify that disaster recovery tests and 'dry runs' are sufficiently	
well constructed to provide an accurate, current and complete	
reflection of real life scenarios, in line with business needs and	
under the direction of superiors	
Critically analyse and clearly communicate/report the implications	
of business continuity management plans and assumptions on	
disaster recovery activities	
Critically analyse and clearly communicate/report the implications	
of the extent of disaster recovery provision for an organisation	
and their impact on business continuity plans to a wide range of	
sponsors, stakeholders, external bodi <mark>es an</mark> d other individuals	
Apply best practice and relevant lea <mark>rning</mark> from other potentially	
disastrous/disastrous and real life disaster scenarios to improve	
own disaster recovery plans	
Design, develop, implement and maintain effective strategy	
policies, plans, standards an <mark>d a specif</mark> ied management control	
structure with named ind <mark>ividuals and</mark> clear communication	
channels for disaster re <mark>covery acti</mark> vities	
Identify, agree and <mark>make reasoned</mark> decisions on the cost and value	
of disaster rec <mark>overy provision f</mark> or IT/technology systems, services	
and assets n <mark>egotiating with</mark> sponsors, stakeholders and superiors	
where appropriate	
Identify precisely the appropriate individual(s) and their roles in	
leading and/or executing disaster recovery plans and activities	
Accurately identify the logistical, technical and financial	
implications of the required level of disaster recovery provision	
on an organisation communicating findings clearly to sponsors,	
stakeholders and other individuals and bodies	

Critically analyse the appropriateness of disaster recovery plans against business continuity needs, reporting and presenting the cost and value of disaster recovery provision of IT/technology systems, services and assets to sponsors, stakeholders and other	
cost and value of disaster recovery provision of IT/technology	
systems, services and assets to sponsors, stakeholders and other	
individuals for endorsement	
Critically review disaster recovery plans for completeness and	
potential improvement against information contained within	
risk registers and assessments and threat and vulnerability	
assessments, feasibility, currency, best practice and lessons	
learned from other potentially disastrous/disastrous scenarios and	
real life disaster scenarios	
Identify when and how to use external providers of disaster	
recovery services, selecting suitable providers and agreeing	
contractual arrangements that will support the business needs	
Contribute Correctly identify the processes, tools and techniques relating to	
to IT disaster disaster recovery activities	
recovery Correctly carry out own role and responsibilities during disaster	
recovery planning and real life disaster recovery scenarios	
Collate and record, the business requirements and criteria for	
restoration of specific IT/technology systems, services and assets	
to support ongoing operation of an organization	
Accurately gather information relating to external providers involved in disaster recovery plans and activities, so that it may be	
used in plans and procedures	
Gather all relevant information and data contained with business	
continuity management plans that have a consequence on disaster	
recovery activities and planning	
Gather all relevant information and data contained within business	
risk registers and vulnerability assessments that have an impact	
on disaster recovery planning	
Regularly source and gather all relevant information relating to the external environment, including legislation, regulations, external	
standards, market forces and technology in order to keep disaster	
recovery plans current, complete and accurate	
Routinely monitor internal and external changes that may trigger	
an update to disaster recovery plans	
Clearly communicate updates required to the disaster recovery	
plan, and document changes made to it, to a wide range of	
sponsors, stakeholders and other internal and external individuals and bodies	
Provide clear and accurate information to sponsors, stakeholders and external bodies and individuals, on the implications and	
consequences of an IT/technology disaster, communicating the	
importance of relevance of disaster recovery activities	

	Develop effective disaster recovery plans that meet the needs of the business and are logistically, technically, and financially feasible, and support the organisation's brand, reputation and organisational effectiveness, presenting findings relating to their accuracy, currency and completeness to a wide range of sponsors, stakeholders and other individuals as directed by superiors		
	Critically analyse all relevant information and knowledge relating to risks, vulnerabilities and threats that may need to be considered within disaster recovery plans		
	Verify the assumptions contained within business continuity management plans that have a consequence on disaster recovery and the business requirements and criteria for restoration of specific IT/technology systems, services and assets		
	Effectively manage the execution of disaster recovery plans, using triggers for invocation correctly and identifying and making decisions on the relative priorities of IT/technology systems, services and assets to be restored, where appropriate		
Manage the development	Accurately identify the information and data contained within		
of IT disaster	business continuity management plans that have a consequence		
recovery plans	on disaster recovery activities, so that it may be used to inform the		
	development of disaster recovery plans		
	Correctly document the potential implications of disaster		
	recovery plans on business continuity management activities and		
	communicate regularly with those ind <mark>ividu</mark> als involved in business		
	continuity management within the wi <mark>der o</mark> rganisation		
	Correctly apply information contained within risk registers, risk		
	assessments, vulnerability and threat assessments to inform		
	disaster recovery plans for an org <mark>anizatio</mark> n		
	Effectively manage relationships with external bodies who provide		
	a range of disaster recovery services and communicate disaster		
	recovery roles, responsibilities, processes and procedures to		
	individuals who may be required to carry them out		
	Implement and maintain effective, current, comprehensive and		
	complete education and training on disaster recovery plans and		
	activities for all individuals within the organisation		
	Accurately identify the sponsors, stakeholders, individuals, external		
	providers and partners who need to be involved in disaster recovery		
	plans and activities and/or who need to be informed in the event of		
	a disaster		
	Identify when and how to use external providers of disaster		
	recovery services, selecting suitable providers and agreeing		
	contractual arrangements that will support the business needs		

	Be accountable for the effective end to end implementation and	
	operation of all disaster recovery and the cost and value of DR	
	provision supporting an organization	
	Effectively manage disaster recovery tests and dry runs, reviewing	
	and presenting the results and outcomes to a wide range of	
	sponsors, stakeholders and external bodies/individuals in order	
	to inform business risk management and business continuity	
	management plans and activities	
	Make reasoned and timely decisions on when to invoke the	
	disaster recovery plan and when and how to invoke a return to	
	normal operations	
	Manage real life disaster recovery activities for an organisation in	
	the event of appropriate triggers, closing down and reporting the	
	results and outcomes to a wide range of sponsors, stakeholders	
	and external bodies	
Document	Accurately capture and document all relevant information,	
specified	required in order to reinstate or restore IT/technology systems,	
information	services and assets	
relating to	Accurately document relevant information relating to external	
recovery	providers involved in disaster recovery, so that it may be referenced	
receivery	in plans and activities	
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ANNEX A.13: ICT SERVICE MANAGEMENT AND DELIVERY

Requirement	Indicator	Compliance	
		YES	NO
Carry out	Follow the procedures, tools, and techniques that apply to service		
designated	operations and event management activities, as directed		
service	Comply with any relevant legislation, regulations, and external		
operations	standards relating to service operations and event management		
activities under	activities, in own area of accountability		
supervision	Provide information, as appropriate, to relevant people on the		
	progress of service operational tasks against schedules		
	Restart tasks within operational schedules, where appropriate,		
	under direction		
	Assist others in communicating with internal and external		
	individuals and groups involved when issues arise in service		
	operations		
	Identify and document the procedures, tools, and techniques		
	relating to, and required for, service operations, as directed		
	Communicate with internal and external individuals and groups		
	involved when issues arise in service operations, as directed		
	Assist others in identifying when tasks within the operations		
	schedule need to be rescheduled		
	Assist others in the rescheduling of service operations activities,		
	as necessary, to complete schedules		
	Implement and maintain strategy, policies, plans, standards,		
	procedures, tools, techniques, and plans that apply to service		
	operations		
	Implement and maintain service operations schedules		
	Implement and maintain the service levels operational hours and		
	metrics that apply to service operations, under direction		
	Identify when tasks within the operations schedule need to be		
	rescheduled		
	Reschedule service operations activities as necessary to complete		
	schedules, reporting action taken to relevant people		
	Ensure that staffing levels and skills are in line with the needs		
	of service operations so that service operations can respond		
	appropriately to any major incident(s) that may arise		
	Assist others in identifying the interdependency of tasks within the		
	service schedule, and the priorities for service operations tasks		

	Assist others in identifying the backup strategies and	
	implementing backup and recovery procedures as part of service	
Manitanand	operations schedules	
Monitor and	Monitor the progress and completion of service operations tasks	
report on the	as directed	
progress and	Track the progress of events taking appropriate and timely action	
completion	in response to them, in line with operational procedures	
of designated	Gather and document all necessary information from monitoring	
service	operational tasks and schedules	
operations	Report issues arising from monitoring the progress and completion	
activities	of service operations tasks	
	Monitor adherence to, and progress against, operations schedules	
	Gather information from tracking the progress of operational	
	schedules	
	Document information relating to the resolution of issues	
	experienced during service operations activities for re-use to	
	inform future activities	
	Source information to support the reporting of performance of	
	service operations against schedules, targets, and/or metrics	
	Provide metrics and management information produced by	
	service operations to internal and exte <mark>rna</mark> l sponsors, stakeholders,	
	individuals, and other bodies as appropriate	
	Assist others in monitoring the quality and effectiveness of service	
	operations	
	Monitor the quality and effectiveness of service operations	
	presenting performance against metrics to relevant people	
	Monitor and analyse the personal effectiveness of individuals	
	working in service operations taking action where appropriate to	
	address issues, under direction, and in line with procedures	
	Apply the metrics to measure the performance of service	
	operations as directed	
	Ensure that that service operations meet strategic, financial, and	
	operational service targets, under direction	
	Identify the level of expertise required to perform service	
	operations, and the effectiveness of individuals working in service	
	operations in meeting relevant targets/metrics	
	Monitor customer satisfaction and the alignment of service	
	operations with business needs, service delivery/operation	
	objectives and the service strategy	
	onleggives and the service strategy	

	Monitor the quality, effectiveness, and customer satisfaction	
	of service operations against business needs, service delivery/	
	operation objectives, and the service strategy	
Assist in	Accurately interpret information gathered during the completion of	
the review	service operations tasks	
of service		
operations	Identify and document the procedures, tools, and techniques	
activities	relating to, and required for, service operations, as directed	
	Communicate with internal and external individuals and groups	
	involved when issues arise in service operations, as directed	
	Assist others in identifying when tasks within the operations	
	schedule need to be rescheduled	
	Assist others in the rescheduling of service operations activities,	
	as necessary, to complete schedules	
	Manage relationships with all internal and external individuals	
	involved in the provision of support to service operations activities,	
	under supervision	
	Ensure that service operations can respond appropriately to any	
	new/enhanced IT/technology systems, services, or assets that are	
	introduced	
	Review the results from monitoring the operation and performance	
	of service operations against metrics	
	Make decisions on the appropriateness of using external suppliers	
	of service operations and event management services, presenting	
	proposals for their use to relevant people	
	Assist others in adapting/changing service operations in support of	
	changing business needs	
	Identify and implement the actions to be taken in the event of	
	service operations not supporting the business needs, service	
	delivery/operation objectives, and/or the service strategy	
	Proactively adapt/change service operations in support of	
	changing business needs	

Perform /	Apply designated procedures, tools, and techniques to respond	
designated t	to incident management and service request activities, under the	
'IT Service	direction of others	
Help Desk	Comply with any relevant legislation, regulations, and external	
and Incident	standards relating to service desk/help desk activities and their	
Management'	deliverables, in own area of accountability	
activities under	Communicate with customers of the service desk/help desk	
supervision	effectively, empathetically, courteously, and in a timely manner, in	
r	relation to incidents and service requests relevant to them	
	Accurately validate, categorise, prioritise, and assign incoming	
i	incidents and service requests in line with procedures	
F	Fulfil service requests and close incidents where possible within	
t	the service desk/help desk in line with procedures	
F	Refer or escalate unfulfilled service requests and unclosed	
i	incidents in line with procedures	
F	Follow the standards relating to the operation of incident	
r	management and service request activities	
F	Proactively escalate incidents to appropriate people based on	
l l	knowledge and understanding of customer needs	
	Track the progress of incidents and service requests	
	communicating, as required, with internal and external individuals	
8	and groups involved in their resolution and closure	
1	Assist with the operational managem <mark>ent o</mark> f the service desk/help	
	desk, including staffing, skilling, mo <mark>nitorin</mark> g performance, and	
	compliance with procedures	
[Document the metrics that will be used within the service desk/	
ŀ	help desk	
1	Manage service desk/help desk activities, including staffing,	
	skilling, provision of appro <mark>priate reso</mark> urces, monitoring	
ķ	performance, and comp <mark>liance with</mark> procedures	
	Take action to reso <mark>lve issues relat</mark> ing to the skills and	
6	effectiveness of service desk/help desk personnel in meeting	
t	targets	
1	Assist others in the tasks required to ensure that service levels for	
i	incident management service request activities and the service	
(desk/help desk are met	
1	Assist others in the event of incident management and service	
r	request activities not supporting the business needs, service	
	delivery/operation objectives, and/or the service strategy	

Identify the definitions of priorities and classifications, and take		
appropriate action in the event of incidents and service requests		
not being resolved, fulfilled, and/or closed, in line with service		
levels		
Design and develop the policies, standards, procedures, tools,		
techniques, and plans that apply to service desk/help desk		
activities and their deliverables		
Implement and maintain standards, procedures, tools, and		
techniques for the service desk/help desk, taking account of		
changing business needs and other internal and external factors		
Provide advice and guidance to others relevant to the service desk	/	
help desk on:		
all aspects on incident management, service request activities		
and their deliverables		
the application of best practice		
identification of the implications of business objectives		
the service strategy and service delivery/operation objectives on		
incident management and service request activities		
the development of appropriate strategy, polices, and plans		
identifying and meeting the strategic, financial, and operational		
targets		
Manage the provision of appropriate resources, equipment, media,		
and information resources to ensure service desk/help desk		
services is effective during its operational hours to its customers		
Be accountable for meeting service levels for incident		
management service request activities and the service desk/help		
desk		
Identify the implications of business objectives, the service		
strategy, and service delivery/operation objectives, on incident		
management and service request activities, including the type of		
service desk/help desk that is required and what hours and service		
levels it will support		
Design standards relating to the management of incidents and		
service requests		
Be accountable for identifying and meeting strategic, financial,		
and operational targets for incident management service request		
activities, and the service desk/help desk		

Congregate	Gather and document all necessary information required for the	
data to	diagnosis of, and assignment of, incoming incidents and service	
monitor and		
	requests Take recognition to a level of average complex and	
report on the	Take responsibility for the level of customer service and	
effectiveness	satisfaction that you provide	
and customer	Follow the standards relating to the operation of incident	
satisfaction	management and service request activities	
of 'Service	Proactively escalate incidents to appropriate people based on	
Help Desk	knowledge and understanding of customer needs	
and Incident	Track the progress of incidents and service requests	
Management'	communicating, as required, with internal and external individuals	
activities that	and groups involved in their resolution and closure	
you provide	Assist with the operational management of the service desk/help	
	desk, including staffing, skilling, monitoring performance, and	
	compliance with procedures	
	Analyse and report on the quality and effectiveness of service	
	desk/help desk activities, and their deliverables, to appropriate	
	people, including sponsors, stakeholders, and other individuals and	
	bodies	
	Monitor customer satisfaction with the service provided by the	
	service desk/help desk	
	Monitor open incidents and ensure that work- around for them are	
	only kept in place for the minimum period of time	
	Review and report the effectiveness of incident management and	
	service request activities and the operational performance of the	
	service desk/help desk against metrics	
	Review the implications of business needs for IT/technology	
1 11 11	service on the service desk/help desk, and the quality and	
	effectiveness of the service desk/help desk in meeting them	
	Identify, and make decisions, on what metrics and targets should	
	be used to measure the performance	
Support the	Accurately interpret information gathered from individual	
Identification	customer calls/contacts to the service desk/helpdesk in order to	
and implement	ascertain the correct course of action/response, under supervision	
improvements		
and work- arounds		
to 'Service		
Help Desk		
and Incident		
Management'		
activities		

	Assist others with the development of work-arounds and	
	resolutions for incidents and service requests where appropriate	
	Develop suitable work-arounds and resolutions for incidents and	
	service requests where appropriate	
	Negotiate with customers on the provision of work- arounds and	
	resolutions for incidents and service requests	
	Assist with the identification of work-arounds where appropriate	
	Apply best practice in incident management activities	
	Identify work-arounds where appropriate	
	Proactively identify the implications of business needs for IT/	
	technology service, including the introduction of new services	
	on the service desk/help desk, presenting findings to appropriate	
	people	
	Develop the metrics, service levels, and operational hours for the	
	service desk/help desk to meet business needs, service delivery/	
	operation objectives, and the service strategy	
	Review the implications of business needs for IT/technology	
	service on the service desk/help desk, and the quality and	
	effectiveness of the service desk/help desk in meeting them	
	Identify when and how to use external providers for all, or part, of	
	incident management and/or service/access request services,	
	negotiating and contacting as necessary with them	
Carry out, under	Correctly follow the procedures, tools, and techniques that apply to	
supervision,	problem management activities, an <mark>d their</mark> deliverables, as directed	
assigned	by others	
problem	Correctly document the classification and priority allocated to any	
management	problem, as directed by others, <mark>and in lin</mark> e with procedures	
activities	Apply any relevant information from internal and external sources	
	about resolutions and fixes that are included in future product and	
	service releases, as directed by others	
	Operate at all times with reference to the priority and severity of	
	problems under supervision	
	Take action to escalate problems correctly and in a timely manner	
	to superiors, and other colleagues as appropriate, in line with	
	procedures	
	Accurately identify who is likely to be impacted by any problem,	
	assisted by appropriate people where necessary	
	Correctly apply the standards relating to problem management	
	activities	

	Identify what classification and priority to allocate to any problem		
f	assigned to problem management if the current classification is		
	incorrect, in line with policies and procedures		
	Accurately document any work-arounds applied to		
	keep business activities on track whilst problems are diagnosed		
	and/or resolved, as directed by others		
	Liaise effectively with internal and external individuals and groups		
	who can provide resolution to problems, as directed by others		
	Take appropriate action to close as many problems as possible via		
	the identification and implementation of long term resolutions/		
	fixes, in line with targets and the service strategy		
	Reclassify/reprioritise incoming problems, where appropriate,		
	after review in order to focus attention on those problems which if		
	resolved would provide maximum benefit to the organisation		
	Manage the timely and effective resolution of problems, as		
	directed by appropriate people, and in line with procedures and the		
	service strategy		
	Provide clear and concise change request information about what		
	is required for the long term resolution of problems, for use by a		
	wide range of internal and external individuals and groups		
ľ	Correctly identify any correlation between changes to the		
	configuration of IT/technology system <mark>s, se</mark> rvices, and assets and		
	the occurrence of incidents and problems		
	Source appropriate expertise from i <mark>nterna</mark> l and external sources		
	to advise and guide on the resoluti <mark>on of p</mark> roblems, using own		
	judgement and experience		
	Effectively delegate problems to individuals, within		
	own area of accountability, on the basis of the problem priority/		
	category to ensure timely <mark>resolution</mark> of problems		
	Ensure that all open problems are routinely monitored, taking		
	action where appropriate		
	Design, implement and maintain effective standards for		
	conducting problem management activities		
	Design appropriate procedures, tools, techniques and plans		
	relating to problem management activities and their deliverables		
	Identify and implement appropriate metrics and targets to be		
	applied to problem management activities		
	Identify what management information will be provided from		
	problem management to customers and other relevant people		

	Identify correctly the implications of business objectives, the	
	service strategy and service delivery/operation objectives on	
	problem management activities, taking action where appropriate	
	Effectively manage the alignment of problem management	
	activities and their deliverables with business needs, service	
	delivery/operation objectives and the service strategy	
	Make correct decisions on the revised priorities and categories to	
	be applied to problems	
	Proactively monitor and report the impact of long term	
	resolutions/fixes on incident/problem volumes/rates and	
	customer satisfaction	
	Proactively identify potential/actual problems based on the	
	analysis of incident, trend, and other related sources of information	
	Regularly monitor the volume, severity, and age of open/	
	outstanding problems, and the volume/rate of problems that are	
	resolved/closed, proactively reporting findings against targets and	
	metrics to sponsors, stakeholders, and other relevant individuals	
	as appropriate	
	Correctly identify where work-arounds are required to keep	
	business activities on track whilst problems are resolved,	
	referencing the service catalogue and/or portfolio, and the	
	priority and classification allocated to problems, under the	
	direction of others	
	Critically analyse all relevant information relating to future	
	product and service releases to establish if this will resolve	
	current problems, as directed by others	
Manage and	Correctly identify the root cause of IT/technology problems and	
review problem	any possible solutions to resolve them, under the direction of	
management activities	others	
against	Implement and maintain effective work-arounds that are proposed	
business	or applied to keep <mark>business acti</mark> vities on track whilst problems	
objectives and	are diagnosed and/or resolved, reporting them to relevant people,	
metrics	sponsors, and stakeholders, as appropriate	
	Critically analyse all relevant information gathered about incident	
	and problem trends and patterns in order to inform future action	
	Recommend the priority and attention that application/technical	
	support groups should apply to any particular problem, based on an	
	accurate assessment of the impact of the problem on individuals	
	and/or the organisation	

	Persuade internal and external support groups to develop and	
	provide long term resolutions/fixes for problems, using information	
	gained from identifying those problems which if resolved would	
	have the greatest impact on the organisation	
	Design appropriate work-arounds for problems ensuring that they	
	are kept in place for the minimum period of time and replaced with	
	appropriate longer term solutions	
	Report findings from the analysis of incident trend information to	
	relevant people	
	Gather all relevant information about what is needed for the long	
	term resolution of problems so that it may be referenced by others	
	and used in change requests	
	Verify where appropriate the accuracy, currency, completeness,	
	and relevance of any information already collected by other	
	individuals about problems in order to inform future action	
	Track the progress of change requests for long term resolutions/	
	fixes to problems escalating to relevant people where appropriate	
	Source and accurately interpret all relevant information about	
	individual problems in order to diagnose the root causes of them	
	Source, use, and accurately document, where appropriate,	
	information from internal and external sources about known errors	
	that may relate to problems, under the direction of others	
	Design, implement and maintain effective standards for	
	conducting problem management activities	
	Design appropriate procedures, tools, techniques and plans	
	relating to problem management activities and their deliverables	
	Identify and implement appropr <mark>iate me</mark> trics and targets to be	
1 1	applied to problem management activities	
Help to identify	Correctly identify any significant problems that are likely to have	
root causes	an impact on the organisation, in line with procedures and with the	
and trends	assistance of appropriate people	
from problem	Correctly identify where work-arounds are required to keep	
management	business activities on track whilst problems are resolved,	
activities	referencing the service catalogue and/or portfolio, and the priority	
	and classification allocated to problems, under the direction of	
	others	

	Critically analyse all relevant information relating to future	
	Critically analyse all relevant information relating to future	
	product and service releases to establish if this will resolve current	
	problems, as directed by others	
	Correctly identify the root cause of IT/technology problems and	
	any possible solutions to resolve them, under the direction of	
	others	
	Implement and maintain effective work-arounds that are proposed	
	or applied to keep business activities on track whilst problems	
	are diagnosed and/or resolved, reporting them to relevant people,	
	sponsors, and stakeholders, as appropriate	
	Critically analyse all relevant information gathered about incident	
	and problem trends and patterns in order to inform future action	
	Recommend the priority and attention that application/technical	
	support groups should apply to any particular problem, based on an	
	accurate assessment of the impact of the problem on individuals	
	and/or the organisation	
	Persuade internal and external support groups to develop and	
	provide long term resolutions/fixes for problems, using information	
	gained from identifying those problems which if resolved would	
	have the greatest impact on the organisation	
	Design appropriate work-arounds for problems ensuring that they	
	are kept in place for the minimum period of time and replaced with	
	appropriate longer term solutions	
	Effectively advise and guide others on how to negotiate with	
	other individuals, groups and organisations to develop and provide	
	resolutions to problems	
Carry out, under	Correctly follow the procedures, tools and techniques that apply to	
supervision,	application management and their deliverables, under supervision	
maintenance	Comply with any relevant legislation, regulations and external	
activities	standards relating to application management activities and their	
that apply to	deliverables in own area of accountability	
application	Undertake routine maintenance on applications, in line with	
management	procedures, documenting action taken and reporting issues arising	
activities	to appropriate people	
	Respond promptly to incoming incidents, problems and change	
	requests affecting applications, in line with their identified priority,	
	as directed	
	Identify and use appropriate contacts/escalation paths with	
	external providers of support for applications, where appropriate	

	Communicate effectively, courteously and in a timely manner with	
	all internal and individuals and groups involved in the provision and	
	progression of application support	
	Correctly select the procedures, tools and techniques to use for	
	application management activities and their deliverables	
	Accurately document and store changes that need to be	
	developed, presently or in the future, to address incoming	
	incidents, problems and or change requests	
	Manage relationships with those internal and external	
	individuals involved in the development, testing, scheduling and	
	implementation of application changes	
	Follow the service/systems lifecycle during applications	
	management support activities, referencing the service catalogue	
	and portfolio to guide and inform action	
	Follow the standards relating to application management activities	
	Identify the routine maintenance required to ensure the ongoing	
	performance of applications, ensuring it is undertaken regularly	
	within own area of accountability	
	Manage effective relationships with individuals and groups	
	requesting changes to applications and external providers offering	
	application management and services	
	Reallocate and reprioritise application management activities	
	undertaken by others, according to the rate, incident and severity	
	of incoming incidents, problems an <mark>d chan</mark> ge requests	
	Present reasoned proposals relating to the use of external	
	providers of application management services, including	
	identifying potential providers	
	Advise and guide others on all aspects of application management	
	activities and their deliverables	
	Design, implement and maintain standards for conducting	
	application management activities	
	Identify the implications of business objectives, the service	
	strategy and service delivery/operation objectives on application	
	management activities, taking action where appropriate	
	Ensure that change requests with external application support	
	providers are escalated, where appropriate, in line with business	
	needs	
	Negotiate with sponsors, stakeholders and other individuals in	
	relation to the release schedule/plan and the contents of each	
	release for any application	
_		

to maintain and improve performance Review any issues arising from the implementation of changes and releases and routine maintenance activities, taking action where appropriate Manage and monitor the progress of development for any application releases against plan and schedule Provide metrics and management information produced by application management activities and their deliverables to internal and external sponsors, stakeholders individuals and other bodies, as appropriate Design, implement and maintain standards for conducting application management activities Identify the implications of business objectives, the service strategy and service delivery/operation objectives on application management activities, taking action where appropriate Ensure that change requests with external application support providers are escalated, where appropriate, in line with business needs Negotiate with sponsors, stakeholders and other individuals in			
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Ensure that change requests with external application support providers are escalated, where appropriate, in line with business needs Negotiate with sponsors, stakeholders and other individuals in		strategy and service delivery/ope <mark>ration o</mark> bjectives on application	
providers are escalated, where appropriate, in line with business needs Negotiate with sponsors, stakeholders and other individuals in		management activities, taking action where appropriate	
needs Negotiate with sponsors, stakeholders and other individuals in		Ensure that change requests with external application support	
Negotiate with sponsors, stakeholders and other individuals in		providers are escalated, where appropriate, in line with business	
		needs	
		Negotiate with spo <mark>nsors, stakeho</mark> lders and other individuals in	
relation to the release schedule/plan and the contents of each		relation to the rel <mark>ease schedule</mark> /plan and the contents of each	
release for any application		release for any application	
Review and make decisions on proposals made by other individuals		Review and make decisions on proposals made by other individuals	
regarding the use of external suppliers of application management		regarding the use of external suppliers of application management	
services, contracting with providers where appropriate		services, contracting with providers where appropriate	
Monitor the quality and effectiveness of application management		Monitor the quality and effectiveness of application management	
activities and their deliverables		activities and their deliverables	
Identify the information required to support the reporting of the		Identify the information required to support the reporting of the	
performance of application management against its targets and/or		performance of application management against its targets and/or	
metrics		metrics	

	Identify and provide accurate estimates for changes to	
	applications required in response to incidents, problems and or	
	change requests for review and approval	
	Assist others with the preparation of supporting information in	
	support of scheduled releases to an application	
	Help identify information required to support the reporting of the	
	performance of application management against its targets and/or	
	metrics	
	Accurately and comprehensively document the results of testing	
	that has taken place on changes to an application, in line with	
	procedures and standards	
Design, develop	Verify the appropriateness of any proposed change identified in	
and manage	response to incoming application incidents, problems and change	
to maintain	requests and the accuracy of any estimated effort, complexity, risk	
and identify	and elapsed time developed by other individuals	
improvements	Make timely and appropriate decisions on which application	
to application	changes to approve	
management	Manage the development of approved changes in response to any	
activities	incoming application incident, problem or change request	
	Design and present the proposed release schedule and plan and	
	the content of each release within it, for any application	
	Ensure that proposed application releases support the identified	
	business needs and priorities	
	Communicate effectively and in a timely manner with sponsors	
	and stakeholders, reporting on the progress versus plan/schedule	
	of application releases and providing proposals for future	
	application releases	
	Negotiate effectively and in line with organisational policies	
	and procedures, with external providers of application support in	
	relation to individual changes required	
	Apply best practice in all aspects of application management	
	activities and document lessons learned so that they may inform	
	and direct the future activities taken by self and others	
	Ensure that change control mechanisms are followed, either in	
	advance or retrospectively, as appropriate within own area of	
	accountability, during application management activities Produce suitable designs for approved changes to applications	
	Produce suitable designs for approved changes to applications, under supervision	
	Accurately estimate the effort, complexity, risk and elapsed time that may be required to develop releases to applications	
	that may be required to develop releases to applications	

	Accurately document the content and delivery details associated	
	with any application release, under the direction of others, where	
	appropriate	
	Assist others with the documentation, implementation and	
	maintenance of any proposed release schedule and plan for an	
	application	
	Assist others in ensuring that proposed application releases	
	support the identified business needs and priorities	
Carry out	Correctly select the procedures, tools and techniques to use	
echnical	for technical support activities and their deliverables, under	
support	supervision	
activities under supervision		
Monitor,	Comply with any relevant legislation, regulations and external	
document	standards relating to technical activities and their deliverables in	
and provide	own area of accountability	
effective		
	Comply with change control mechanisms that apply to technical	
	support activities, under supervision	
	Undertake efficient and timely routine maintenance on technical	
	infrastructure and services to ensure their ongoing performance	
	and availability, in line with procedures, documenting action taken	
	and reporting issues arising to relevant people	
	Respond promptly to incoming incidents, problems, change	
	requests and other events relating to technical infrastructure and	
	services , in line with their identified <mark>priori</mark> ty, as directed by others	
	Estimate accurately own effort, and the complexity,	
	risk and elapsed time associated with changes and repairs to	
	and/or replacements of technical infrastructure and services	
	in response to incidents, problems, change requests and other	
	events, under supervision	
	Implement changes and releases to technical infrastructure and	
	services into pre-production	
	environments ready for their validation and release into the	
	production environment, where appropriate, under supervision	
	Implement infrastructure repairs and refreshes, where appropriate	
	and approved, under supervision	
	Identify and use appropriate contacts/escalation paths with	
	external providers of support for technical infrastructure and	
	services, where appropriate	

- 1	Accurately and comprehensively document the results of testing	
	that has taken place on changes and repairs to or replacements of	
	technical infrastructure and services , in line with procedures and	
-	standards	
	Communicate effectively, courteously and timely with all external	
	individuals and groups who provide technical support in response	
	to incidents, problems, change requests and other events, under	
L	supervision	
ļ		
	Communicate effectively, courteously and timely with internal	
	and external individuals and groups on the progress of changes	
	and repairs to and replacements of technical infrastructure and	
	se requests and other events, as directed by others services, in	
	response to incidents, problems, change	
-		
	Provide timely and suitable advice and guidance to others on the	
	appropriateness of repairing existing infrastructure, in line with	
ļ	procedures and under supervision	
	Correctly identify which incidents, problems, change requests and	
	other events can be tackled internally and which required external	
	provider support, in line with procedures and as directed by others	
- 1	Accurately document the procedures, tools and techniques	
	relating to technical support activities and their deliverables, under	
	supervision	
	Correctly reference the service catalogue and/or portfolio and	
	service levels during technical s <mark>upport a</mark> ctivities	
	Assist others with the preparation of documentation relating to	
	changes, repairs and replacements to be used to address incoming	
	incidents, problems, change requests and other events associated	
H	with technical infrastructure and services	
- 1	Assist in monitoring and identifying improvements relating to	
ļ	technical support activities	
	Correctly identify when and how change, configuration, release	
	and asset management procedures may be required to introduce	
	changes to technical infrastructure and services and or new/	
_ h	repaired equipment, in line with procedures	
	Apply best practice in technical support activities so that they may	
	inform and direct the future activities taken by self and others	

activities		
support		
technical		
or improve		
to maintain		
necessary		
approval where	refresh programmes	
direction and	for any proposed technical infrastructure and services releases or	
Provide	Verify, and make appropriate decisions on, the plans and schedules	
	needs	
	release and/or refresh to schedul <mark>e/budg</mark> et, in line with business	
	Ensure the delivery of any planned infrastructure product/services	
	technical support activities, taking action where appropriate	
	service strategy and service delivery/ <mark>oper</mark> ation objectives on	
	Correctly identify the implications of business objectives, the	
	for conducting technical support activities	
	Design, implement and maintain suitable and effective standards	
	refreshes support the identified business needs and priorities	
	Ensure that proposed technical infrastructure and services	
	and/or refresh programmes against plan and schedule	
	development of any technical infrastructure and services releases	
	Effectively manage and regularly monitor the progress of	
	refresh programme	
	scope for any technical infrastructure and services release and/or	
	Design and present an effective proposed schedule/plan and	
	needs and priorities	
	service releases and/or refreshes support the identified business	
	Assist others in ensuring that proposed infrastructure product or	
	technical infrastructure and services, under direction	
	implementation of changes and repairs to or replacement of	
	Manage effective relationships with those internal and external individuals involved in the development, testing and	
	requests and other events, under direction	
	to technical infrastructure and services in response to incidents,	

Negotiate effectively with sponsors, stakeholders and other	
individuals with sponsors, stakeholders and other individuals in	
relation to any proposed infrastructure refresh/release schedule/	
plan and their contents for any technical infrastructure and	
services	
Review and make reasoned decisions on the schedule/plan and	
scope of any technical infrastructure and services release or	
refresh programmes, in line with service strategy, architecture and	
design principles, where appropriate	
Design and present an effective proposed schedule/plan and	
scope for any technical infrastructure and services release and/or	
refresh programme	
Effectively manage and regularly monitor the progress of	
development of any technical infrastructure and services releases	
and/or refresh programmes against plan and schedule	
Ensure that proposed technical infrastructure and services	
refreshes support the identified business needs and priorities	
Correctly identify when and how change,	
configuration, release and asset management procedures may	
be required to introduce changes to technical infrastructure and	
services and or new/repaired equipment, in line with procedures	
Apply best practice in technical suppo <mark>rt ac</mark> tivities so that they may	
inform and direct the future activities taken by self and others	
Produce suitable designs for approv <mark>ed ch</mark> anges,	
where appropriate, to technical infrastructure and services in	
response to incidents, problems, <mark>change</mark> requests and other	
events, under direction	
Manage effective relationships with those internal and	
external individuals involved in the development. testing and	
implementation of changes and repairs to or replacement of	
technical infrastruct <mark>ure and serv</mark> ices, under direction	
Assist others in ensuring that proposed infrastructure product or	
service releases and/or refreshes support the identified business	
needs and priorities	

Design, develop	Correctly follow the procedures, tools and techniques that apply to	
and manage	availability management and their deliverables, under supervision	
to maintain		
and identify		
improvements		
to application		
management		
activities		
Review and	Comply with any relevant legislation, regulations and external	
analyse	standards relating to availability management activities and their	
availability	deliverables in own area of accountability	
management	Comply with all change control mechanisms that apply to	
activities	availability management and support activities, under supervision	
dottvittioo		
	Comply with any relevant legislation, regulations and external	
	standards relating to availability management activities and their	
	deliverables in own area of accountability	
	Comply with all change control mechanisms that apply to	
	availability management and support activities, under supervision	
	Operate with reference to all relevant infrastructure architecture,	
	designs, configurations and standards, <mark>un</mark> der supervision and in	
	line with procedures	
	Assist others in the routine monitorin <mark>g of t</mark> he availability of IT/	
	technology systems, services and as <mark>sets,</mark> under supervision	
	Routinely maintain and monitor the availability of IT/technology	
	systems, services and assets within the organisation, under	
	supervision	
	Routinely monitor the availability of external provided/hosted IT/	
	technology products/services and equipment, under supervision	
	Communicate in a timely manner with those external providers	
	of IT/technology products and services that need to be available, under supervision	
	Assist others with the timely reporting of the availability of IT/	
	technology systems, services and assets against targets and other	
	metrics	

Critically analyse and accurately document the actual availability	
of IT/technology systems, services and assets against targets and	
other metrics, reporting findings to sponsors,	
stakeholders and other individuals as directed	
Correctly identify which IT/technology systems, services, assets,	
products and components may be unavailable, and why this may	
be the case, as directed	
Correctly identify which IT/technology systems, services, assets,	
products and components need to be available to underpin the	
provision of an end to end service for a customer	
Report in a concise and timely manner, the availability plan(s) to	
relevant people	
Report actual availability against agreed plan and, if required,	
implement action(s) to maintain alignment Assist others with the presentation of the availability plan	
Assist others with the presentation of the availability plan,	
availability targets and other metrics, to a range of individuals, under direction	
Effectively implement and maintain standards relating to	
availability management activities and their deliverables	
Identify and take timely and appropriate preventative action to	
anticipate and avoid possible issues with the availability of IT/	
technology systems, services and assets	
Take account of all relevant current a <mark>nd fu</mark> ture internal and	
external factors that may impact on the availability of IT/	
technology systems, services and assets	
Correctly identify and plan for, in a timely manner, potential	
changes to the infrastructure re <mark>quired in</mark> order to maintain	
availability of IT/technology se <mark>rvices</mark>	
Effectively manage and monitor the availability of any IT/	
technology services with any relevant legislation, regulations and	
external standards	
Correctly identify the implications of business objectives, the	
service strategy and service delivery/operation objectives on	
availability management activities	
Design effective strategy, policies, standards, procedures, tools,	
techniques and plans for conducting availability management	
activities Regularly review the evallability plan(a) evallability targets and	
Regularly review the availability plan(s), availability targets and	
other metrics	
Regularly review the results from monitoring the availability of IT/	
technology systems, services and assets against metrics, making	
decisions as required	

Clearly and concisely report the availability of IT/technology	
services, on a regular basis, against metrics to a range of internal	
and external individuals and groups	
Assist others with the identification of all relevant metrics that	
are to be used to measure the performance of IT/technology	
availability	
Correctly identify and report what are the availability targets that	
apply to IT/technology systems, services assets, products and	
components, as directed	
Verify where appropriate, the accuracy, currency, completeness	
and relevance of all information relating to the impact on	
availability arising from incidents, problems and other events, as	
directed	
Source all relevant information in order to accurately document	
and effectively implement and maintain the availability plan(s) and	
targets	
Correctly identify and accurately document all relevant	
procedures, tools and techniques to use for availability	
management activities and their deliverables, under supervision	
Source and gather, in a timely manner, all relevant information	
from monitoring the current availability of IT/technology systems,	
services and assets	
Gather all information to support the reporting of availability	
against targets and/or metrics, under supervision	

Carry out	Correctly select and use the procedures, tools and techniques that apply to capacity management activities and their deliverables,	
routine capacity	under supervision	
management	Chiadi Copel Vicion	
activities, under		
supervision		
Review, assess	Fully comply with all relevant change control mechanisms during	
and report	capacity management activities, under supervision	
on capacity	Correctly implement and maintain the IT/technology capacity	
management activities	plan(s) and any relevant metrics to measure the performance of IT/	
activities	technology capacity, as directed	
	Effectively manage the routine/ongoing provision of IT/technology capacity to meet demand, ensuring change control mechanisms are followed correctly, where required	
	Routinely tune and balance the performance of existing IT/ technology capacity, analysing and reporting the impact of action taken, as directed and in line with procedures	
	Correctly implement and maintain strategy, policies, plans, standards, procedures, tools and techniques relating to capacity management activities and their deliverables	
	Effectively manage the response to routine and intermittent peaks, spikes and troughs in IT/technology capacity utilisation	
	Effectively plan the timely introduction of new/incremental IT/technology capacity and resources	
	Correctly identify potential external pr <mark>ovid</mark> ers of capacity, negotiating and managing relationshi <mark>ps wi</mark> th them where	
	Manage and monitor the progress of any proposals and plans to upgrade IT/technology capacity, reporting issues and status to sponsors, stakeholders and other relevant individuals, where appropriate	
	Correctly identify the most effective ways of deploying and redeploying IT/technology capacity/resources, providing timely and understandable advice and guidance to other individuals on the course of action to take	
	Correctly identify and report the impact of future demand on existing IT/technology capacity/resources and their likely performance, applying information about what actions may be required through assessment and modelling techniques	
	Correctly identify what actions are required as a result of monitoring and analysing the utilisation of IT/technology capacity	
	Monitor the results of any tuning and balancing activity on IT/ technology capacity and the results of any upgrades to IT/ technology capacity, as undertaken by others	

Carry out	Correctly follow the procedures, tools and techniques to use for	
change and	change and/or release management activities, under supervision	
release		
activities, under		
supervision		
Gather and	Comply with all organisational strategy, policies, plans/schedules	
document		
information	and standards relating to change and release management	
relating	activities, under supervision	
to change and	Provide accurate and timely information about windows for change	
release activities,	and/or freeze periods to any individuals who may be involved in the	
under	submission or sponsorship of change requests, under supervision	
supervision	Correctly select the procedures, tools and techniques to use for	
	change and/or release management activities , under supervision	
	Comply fully with all relevant and applicable legislation,	
	regulations and external standards relating to change and	
	release management activities and any relevant commercial	
	and contractual arrangements with external suppliers providing	
	releases and changes	
11	Correctly identify when releases and changes are scheduled to be	
	issued by internal and/or external providers, under supervision	
	Proactively liaise with all individuals involved in the raising or	
	sponsorship of change requests, advising them of decisions made	
	by the change management/advisory board (or equivalent body/	
	individual), under supervision	
	Correctly apply strategies, policies, plans/schedules, standards	
	and targets relating to change an <mark>d relea</mark> se management activities	
	Report clearly and in a timely manner all change requests	
	approved for a particular wi <mark>ndow for c</mark> hange to sponsors,	
	stakeholders and other individuals involved in change and release	
	management activities	
	Accurately report any emergency changes that need to be	
	scheduled and implemented to sponsors, stakeholders and other	
	individuals involved in change and release management activities	
	Liaise proactively with all internal and external individuals and	
	groups who have developed/provided IT/technology elements that	
	are included in a release and/or change request and any individuals	
	affected by the implementation of changes and/or releases	
	Correctly implement and maintain the strategy, policies, plan,	
	standards, procedures, tools, techniques and plans/schedules that	
	apply to change and/ or release management activities	

Correctly identify the implications of business objectives, the	
service strategy and service delivery/operation objectives on	
change and release management activities	
Correctly identify when, why and how unplanned/emergency	
changes need to be progressed and implemented	
Effectively implement and maintain the schedule of windows for	
change and freeze periods	
Implement and maintain an effective and accurate release plan	
and associated schedule for any particular IT/technology system,	
service and/or asset	
Correctly identify what actions are needed in the event of a failure	
during change and/or release management activities, to facilitate	
informed decision making by others	
Provide specific, understandable and timely advice and guidance	
to others on all aspects of change and/or release management	
activities , including the application of best practice and when it	
is appropriate to seek internal and/or external assistance for the	
assessment of proposed changes and/or releases	
Negotiate effectively with all internal and external providers and	
groups who have developed/provided IT/technology elements	
that are included in a release and/or change request and/or all	
individuals who may be impacted by t <mark>he im</mark> plementation of a	
change/release	
Design effective and suitable strategy, policies, plans, standards,	
procedures, tools, techniques, plans/schedules, metrics and	
standards relating to change and/or release management	
activities	
Correctly identify what actions to take in the event of change and	
release management not supporting the business needs, service	
delivery/operation objectives and/or the service strategy for the/	
an organisation	
Ensure that accountability for any particular release of an IT/	
technology system, service and/or asset is delegated appropriately	
Effectively manage the assessment of external providers of	
change and release management services, reviewing and making	
appropriate decisions on proposals for their use and contracting	
with providers where appropriate	
Make well reasoned decisions on the release plan and associated	
schedule relating to any IT/technology system, service and/or	
asset	

Negotiate and make considered decisions on the size and	
frequency of windows for change and freeze periods as required	
to meet the needs of sponsors, stakeholders and other individuals	
within the organisation	
Correctly source and accurately collate all relevant information	
about the releases and changes that are to be provided by internal	
and/or external providers, under supervision	
Correctly gather and accurately collate all relevant information	
about scheduled change freeze periods the schedule of windows	
for change, under supervision	
Accurately and completely document all change requests	
received, in a timely manner, in line with procedures and under	
supervision	
Correctly collate and accurately document the necessary	
information about all proposed changes for any particular window	
for change, so that it may be used to inform change management	
decision making	
Assist others in sourcing information about any scheduled/planned	
change so that it may be assessed through change management	
Assist others in sourcing information relating to the content and	
schedule of any release provided by any internal and/or external	
provider	
Correctly select the procedures, tools and techniques to use for	
change and/or release management activities, under supervision	
Comply fully with all relevant and applicable legislation,	
regulations and external standards relating to change and	
release management activities and any relevant commercial	
and contractual arrangements with external suppliers providing	
releases and changes	
Correctly identify when releases and changes are scheduled to be	
issued by internal and/or external providers, under supervision	
Proactively liaise with all individuals involved in the raising or	
sponsorship of change requests, advising them of decisions made	
by the change management/advisory board (or equivalent body/	
individual), under supervision	
Correctly apply strategies, policies, plans/schedules, standards	
and targets relating to change and release management activities	
Report clearly and in a timely manner all change requests	
approved for a particular window for change to sponsors,	
stakeholders and other individuals involved in change and release	
management activities	
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Accurately report any emergency changes that need to be	
scheduled and implemented to sponsors, stakeholders and other	
individuals involved in change and release management activities	
Liaise proactively with all internal and external individuals and	
groups who have developed/provided IT/technology elements that	
are included in a release and/or change request and any individuals	
affected by the implementation of changes and/or releases	
Correctly implement and maintain the strategy, policies, plan,	
standards, procedures, tools, techniques and plans/schedules that	
apply to change and/or release management activities	
Correctly identify the implications of business objectives, the	
service strategy and service delivery/operation objectives on	
change and release management activities	
Correctly identify when, why and how unplanned/emergency	
changes need to be progressed and implemented	
Effectively implement and maintain the schedule of windows for	
change and freeze periods	
Implement and maintain an effective and accurate release plan	
and associated schedule for any particular IT/technology system,	
service and/or asset	
Correctly identify what actions are needed in the event of a failure	
during change and/or release management activities, to facilitate	
informed decision making by others	
Provide specific, understandable and timely advice and guidance	
to others on all aspects of change and/or release management	
activities , including the application of best practice and when it	
is appropriate to seek internal and/or external assistance for the	
assessment of proposed changes and/or releases	
Design effective and suitable strategy, policies, plans, standards,	
procedures, tools, techniques, plans/schedules, metrics and	
standards relating to change and/or release management	
activities	
Ensure that accountability for any particular release of an IT/	
technology system, service and/or asset is delegated appropriately	
Effectively manage the assessment of external providers of	
change and release management services, reviewing and making	
appropriate decisions on proposals for their use and contracting	
with providers where appropriate	
Make well reasoned decisions on the release plan and associated	
schedule relating to any IT/technology system, service and/or	
asset	

Negotiate and make considered decisions on the size and	
frequency of windows for change and freeze periods as required	
to meet the needs of sponsors, stakeholders and other individuals	
within the organisation	
Correctly source and accurately collate all relevant information	
about the releases and changes that are to be provided by internal	
and/or external providers, under supervision	
Correctly gather and accurately collate all relevant information	
about scheduled change freeze periods the schedule of windows	
for change, under supervision	
Accurately and completely document all change requests	
received, in a timely manner, in line with procedures and under	
supervision	
Correctly collate and accurately document the necessary	
information about all proposed changes for any particular window	1
for change, so that it may be used to inform change management	
decision making	
Assist others in sourcing information about any scheduled/planned	
change so that it may be assessed through change management	
Assist others in sourcing information relating to the content and	
schedule of any release provided by any internal and/or external	
provider	
Correctly identify what information needs to be gathered and/or	
referenced about any particular cha <mark>nge a</mark> nd/or release to inform	
change request assessment	
Accurately source and gather all relevant information about any	
unplanned/emergency change, under supervision	
Ensure that all change requests received contain correct and	
complete information for them to be assessed by the change	
management/advisory board (or equivalent body/individual)	
Accurately and fully document the procedures, tools and	
techniques relating to change and/or release management	
activities, under supervision	
Accurately document the release plan and associated schedule	
relating to any IT/technology system, service and/or asset, under	
supervision	
Accurately document all decisions made by the change	
management advisory board (or equivalent body/individual) on all	
change requests reviewed, including which changes have been	
approved for inclusion and scheduled for implementation in any	
particular window for change, under supervision	

	Provide accurate and timely information about any change and/or	
	release that is required by individuals involved in its assessment,	
	under supervision	
	Manage and monitor all change requests received by change	
	management, critically analysing them in order to inform the	
	decision making, change management/advisory board (or	
	equivalent body/individual)	
	Correctly identify the implications of not implementing or delaying	
	a release provided by an internal and/or external provider	
	Ensure that the build of any particular release is reflected in the	
	plan, schedule and contents documentation as directed	
	Correctly identify and concisely present, any particular release	
	plan and associated change schedules for approval and review by	
ł	relevant people, sponsors, stakeholders and other individuals	
	Correctly identify the risks and benefits associated with any	
	proposed change and/or release as directed	
	Correctly identify all individuals and groups who needs to be	
	involved in the assessment of any particular change request as	
	directed	
	Ensure that timely and thorough analysis and review of all	
	proposed changes and releases takes place against the current IT/	
	technology configuration as directed	
	Ensure that all change conflicts are identified, analysed and	
	resolved prior to any approval of cha <mark>nges</mark> and/or releases	
	Correctly identify and report any potential change conflicts and	
	the action taken to resolve them <mark>through</mark> the identification of their	
	relative priority, to sponsors, sta <mark>keholde</mark> rs and other individuals	
	involved in change and release management activities	
	Correctly use all relevant fi <mark>ndings fro</mark> m the assessment of	
	the impact of propose <mark>d changes on</mark> the current IT/technology	
	configuration, so that they may inform the decision making of	
	the change management/advisory board (or equivalent body/	
	individual)	
	Clearly report all relevant decisions made by change management/	
	advisory board (or equivalent body/individual) to the sponsors,	
	stakeholders of each change request	
	Design appropriate releases and associated, effective release	
	plans and schedules for a particular IT/technology system, service	
	and/or asset	

	· · · · · · · · · · · · · · · · · · ·	
	Critically analyse the implications of not implementing or delaying	
	a release provided by an internal and/or external provider to inform	
	decision making	
	Closely monitor and effectively manage the planning, scheduling	
	and implementation of required changes and release, including the	
	timely progression of emergency changes	
	Routinely monitor and accurately report the quality and	
	effectiveness of change and release management activities	
	Critically review and make appropriate and well-reasoned	
	decisions on all change requests received by change management,	
	their relative priority and any change request conflicts, prior to	
	their authorisation to the board (or equivalent body/individual)	
	Make timely and appropriate decisions on what actions are needed	
	in the event of failure during change and/or release management	
	activities	
	Critically review the quality and effectiveness of external providers	
	of change and/or release management services, taking action	
	in the event of them not supporting the business needs, service	
	delivery/operation objectives and/or the service strategy	
	Provide understandable and specific advice and guidance to other	
	individuals on the most appropriate approaches to use to build/	
	combine any release for an IT/technology system, service and/or	
	asset	
	Provide clear and considered advice and guidance to others on the	
	potential implications to the organ <mark>isation</mark> of not implementing any	
	release provided by internal and/or external providers	
Carry out	Follow the procedures, tools, and techniques that apply to service	
designated	operations and event management activities, as directed	
service	Comply with any relevant <mark>legislation</mark> , regulations, and external	
operations	standards relating to service operations and event management	
activities under	activities, in own area of accountability	
supervision	Provide information, as appropriate, to relevant people on the	
	progress of service operational tasks against schedules	
	Restart tasks within operational schedules, where appropriate,	
	under direction	
	Assist others in communicating with internal and external	
	individuals and groups involved when issues arise in service	
	operations	

ANNEX A.14: CHANGE A TRANSFORMATION

Requirement	Indicator	Compliance	
		YES	NO
Assist in	Assist others in the identification of business requirements for a		
dentifying	specified change management assignment		
requirements	Assist others in identifying the information necessary to conduct a		
for a change	change management assignment		
management	Assist others in gathering evidence for any change management		
assignment,	proposals and plans that have been developed by others to meet		
under direction	the business requirements		
	Follow the strategy, policies, plans and standards relating to		
	change management		
	Correctly use the procedures, tools and techniques for undertaking		
	a change management assignment		
	Comply with any relevant legislation, regulations and standards		
	relating to change management, in own area of accountability		
	Correctly select and apply the procedures, tools and techniques for		
	undertaking change management assignments		
	Use and apply the systems development lifecycle, as appropriate		
	to change management assignments, in line with organisational		
	strategy, policies and standards		
	Identify the scope, characteristics and requirements of change		
	management assignments, through the evaluation of information		
	available and the application of ow <mark>n judge</mark> ment		
	Identify the internal and external drivers for a change management		
	programme and the associated benefits		
	Proactively identify and evaluate the range of complex and non-		
	routine business opportunities that require change management		
	support for them to be realised		
	Identify and select an appropriate range of change management		
	options, proposals and plans that meet business requirements that		
	may incorporate a range of complex and non-routine issues and		
	involve one or more business functions		
	Identify, proactively, the range of strategic, complex and non-		
	routine business opportunities that require the support of change		
	management programmes for them to be realised		
	Identify the internal and external drivers for change management		
	programmes and the associated benefits, for an organisation		

	Identify when and how to use external providers of change	
	management services and which providers to use, applying	
	knowledge of the organisational culture	
Gather,	Gather and document clearly and accurately information relating	
document and	to a change management assignment	
communicate	Source and collate relevant information about projects and	
information	programmes that require change management to be applied in	
relating to	order for them to be effective	
a change	Assist others in documenting options, proposals and plans arising	
management	from a specified change management assignment	
assignment,	Assist others in communicating effectively and in a timely	
under direction	manner with a range of individuals during a change management	
	assignment	
	Gather all information relevant to the organisational structure and	
	culture that may impact on change management assignments	
	Gather and collate qualitative and quantitative evidence to support	
	any options, proposals and plans to address change management	
	requirements, as directed	
	Document any proposals, plans and benefits associated with	
	change management assignments clearly and accurately, as	
	directed	
	Document, clearly and precisely, the p <mark>rogr</mark> ess of change	
	management implementation, as directed	
	Document any organisational, proce <mark>ss, IT</mark> and other technology	
	implications of change manageme <mark>nt deli</mark> verables, clearly and	
	accurately	
	Verify information used during change management assignments	
1 11 11	Design, implement, documen <mark>t and ma</mark> intain an appropriate change	
	management plan to supp <mark>ort busines</mark> s needs, clearly, accurately	
	and in a timely manner	
	Apply lessons learned from prior relevant experience and best	
	practice in change management as appropriate to the context and	
	characteristics of the current change management programme	
	Interpret change management approaches, proposals and plans,	
	applying own judgement to information available, in order to	
	establish which may meet the business requirements most	
	effectively	
	Design the vision for change management programmes that will	
	be realised in an clear and understandable manner	

	Design, develop, implement and maintain effective strategy,	
	policies and standards associated with change management	
	programmes and their alignment with legislation, regulations and	
	standards	
	Develop and present sound and persuasive proposals to use	
	change management programmes to ensure the realisation of	
	strategic business opportunities for an organisation	
	Develop and implement appropriate education and training	
	programmes to support change management programmes	
Assist in	Assist others in the design of a change management plan to	
the design,	support business needs	
implementation	Assist others in the planning, implementation and maintenance of	
and	change management assignments, under direction	
maintenance	Manage change management programmes, within own area	
of change	of accountability, in a timely manner as required to meet the	
management	specified business needs	
plans and	Manage relationships effectively with a wide range of internal and	
assignments	external individuals and bodies during any change management	
	programme	
	Monitor change management programmes, within own area	
	of accountability, to ensure quality and compliance with all	
	legislation, regulations and standards	
	Review and take account of culture, the influence of particular	
	individuals and relevant real life factors and constraints, in any	
	change management programme	
	Respond effectively and in a timely manner to the different	
	stances that individuals may ad <mark>opt in re</mark> sponse to change	
	Verify any information used by self and others, as appropriate,	
	during any change management programme	
	Ensure information produced by business analysis activities	
	is available to and applied correctly to a change management	
	programme	
	Review the quality and effectiveness of change management	
	programmes and any external providers involved in their delivery,	
	taking action where appropriate	
	Monitor the implementation of change management programmes,	
	using judgement and experience to ensure that business needs are	
	being met	
	Manage any potential resistance to change from a wide range of	
	individuals and groups across the organisation or organisations	

	Make decisions on the actions required by self and or others, in	
1	the event of change management programmes not meeting the	
	business needs	
	Advise and guide other individuals on all aspects of change	
1	management, including best practice through application of own	
	experience and knowledge	
Communicate	Select and use the most appropriate communication styles with	
change	sponsors, stakeholders and other individuals during change	
management	management assignments	
information,	Assist others in the reporting of change management assignments	
under direction	Assist others in the clear and empathetic communication of the	
,	vision and benefits associated with change to a wide range of	
	sponsors, stakeholders and other individuals	
	Communicate the vision and benefits associated with change	
	clearly, persuasively and in a timely manner, to a wide range of	
	sponsors, stakeholders and other individuals and bodies	
	Report the progress of any change management programme to	
	a wide range of sponsors, stakeholders and other individuals and	
	bodies	
	Communicate effectively and persuasively with senior sponsors,	
	stakeholders and external bodies and individuals on the strategic	
	value, role and importance of change management	
	Negotiate, agree and authorise contracts, decisions, actions and	
	approaches that are required by other individuals across the	
	organisation during change management programmes	

ANNEX A.15: COMMON COMPETENCIES: INTERPERSONAL COMPETENCIES

Requirement	Indicator	Comp	liance	
		YES	NO	
Communicate	Communicate accurately, clearly, and timely, relevant			
effectively	information			
	share information honestly and tactfully			
	Predict others' responses and respond appropriately to the			
	situation			
	Communicate work status and issues			
Exhibit	Motivate others to develop a shared vision of the			
qualities of	organization's future			
a good team player	Encourage and accept other people's ideas			
ptayer	Perform all delegated duties as necessary			
	Interface and build good relationship between customers			
	and stakeholders			
	Participate openly on team discussions			
Plan and	Prioritize assigned tasks to ensure timely delivery of services			
manage time				
effectively				
Demonstrate basic	Gather information, evaluate options, and offer appropriate			
problem-	solutions			
solving	Anticipate hindrances and plan alternative courses of			
skills and	actions			
appropriately				
apply proven solutions				
Initiate	Use computer-based and other training materials			
continuous	Explain the need for lifelong learning	-		
professional	Adhere to standards and industry practices			
development	Adhere to standards and industry practices			
Explain	Describe the overall sy <mark>stems enviro</mark> nment			
current	Identify systems maintenance support, Internet connectivity			
business environment	needed, security			
and	services, and technical problems that may arise			
infrastructure	Identify alternative products			

Advocate data	Build credibility by being trustworthy and reliable		
security	Make decision, initiate urgent actions, and remain calm in		
	stressful situations		
	Competently and patiently respond to customer requests		
	Explain data confidentiality, integrity, and audit ability (CIA)		
	Conduct periodic Risk Assessment and Management		
Identify the	Deal with the challenge of preventing inappropriate use of		
important	computer equipment and peripherals		
security and legal issues			
associated			
with			
using the			
computers			

ANNEX A.16: CAPACITY DEVELOPMENT FOR END USERS (PUBLIC SECTOR WORKFORCE)

Requirement	Indicator	Compliance	
			NO
Introduction to	MCAs have conducted sensitizes and training for Government		
e-Government	employees in harnessing the potential of ICT in the delivery of		
	Government services		
Producing	MCAs have conducted training to end users in various		
Government	Government ministries and depa <mark>rtments</mark> to the use of word		
Documents	processing in production of sta <mark>ndard Go</mark> vernment documents		
Government	MCAs have conducted training to end users in various		
Communication	Government ministries and departments to the use of ICT for		
	effective communication and collaboration		
Preparing	MCAs have conducted training to end users in various		
Government	Government ministries and departments to the use of word		
Budget	processors and spreadsheets in preparing Government estimates.		
Making	MCAs have conducted training to end users s in various		
Presentations	Government ministries and departments on how to make effective presentations using presentation software		

ICT Security	MCAs have conducted training and awareness to end users on	
	the basics of ICT security covers issues and principles of security	
	and information assurance including confidentiality, integrity,	
	authentication, identification, authorization, availability and access	
	control	
User Support	MCAs have conducted training on quality customer service skills	
	for effective customer care strategies needed to provide excellent	
	service.	
	Are end users acquired skills on of Help Desk effectiveness for	
	their interpersonal skills, better communication, getting and giving	
	good information, handling challenging behavior and managing	
	telephone interactions.?	
Specific MCA	Are all applications provided by vendors to an MCAs shall have	
applications	a component for end user training and operational manual for	
	specific applications deployed by MCAs?	
	Are Vendors include an e - learning component on the MCAs web	
	portal for systems provided	
e-Records	MCAs have conducted training programmes for records officers	
Management	on the importance of e-Records management	
e-Front office	Are MCA conducting Customer care training for personnel	
	handling citizens services at common service centres?	
Project	MCAs have conducted training for staff implementing, managing	
management	and working on ICT projects	
	MCAs shall ensure that all ICT projects have a training component	
	in them. It shall further ensure tha <mark>t ICT of</mark> ficers are capacitated to	
	supervise outsourced ICT projects <mark>, to und</mark> ertake quality assurance	
	and compliance and manage the project deliverable after project	
	commissioning and enable knowledge transfer	
Business	MCAs have conducted training on business process reengineering	
Process	for senior officers	
Reengineering ICT Leadership	MCAs have conducted trainings on ICT leadership and governance	
and Governance	for senior officers to champion ICT project implementations	
ICT induction	MCAs have conducted induction to all current and newly recruited	
course	personnel on ICT legal framework in Kenya	
Digital Literacy	MCAs are conducting skills assessments for personnel to	
Assessment	determine level of literacy awareness, competencies and	
	expertise	
e-Learning	MCAs have implemented learning management systems to ensure	
	personnel skills development and reduce cost of learning.	
	personner ontito development and redece cost of tearning.	

ICT Global	Are MCAs implementing global standardized certification	
Certification	programs on productivity to end users that ensure international	
	best practice?	
Curriculum	MCAs shall implement customized curriculum to suite different	
	productivity levels of skills and competency.	
Skills inventory	MCAs have implemented an skills inventory database systems	
systems	that provide framework for Monitoring and evaluating ICT training	
	programmes and skills levels	
ICT resource	MCAs have implemented ICT resource centre that has computer	
centres	facilities to ensure all personnel can all can access and receive	
	government information	
Review of	MCAs shall regularly review of the ICT scheme of service to keep	
schemes of	up with dynamics of technology advancement so that training	
service	career progression is in accordance with international standards	
	and best practice.	
Digitization and	MCAs shall conduct digitization training for personnel responsible	
automation	for automation in MCAs	
training		
e-Literacy	MCAs have equipped the citizens with ICT literacy skills,	
	knowledge and competencies to access e-services in an	
	ICT-driven knowledge society	
e-Citizen	MCAs have equipped the citizens with knowledge and	
	competencies in using Internet base <mark>d too</mark> ls for communication	
	available online services and skills o <mark>n sea</mark> rching for, accessing and	
	using information from the Internet	
Government of	MCAs have equipped the citizens with knowledge and	
Kenya eService	competencies in using GOK e-S <mark>ervices-</mark> access ,communication	
	and performing transactions with Government MCAs systems	
ICT Security	MCAs have conducted awareness to citizens on the basics of ICT	
	security on confidentiality, integrity, authentication, identification,	
	authorization, availabilit <mark>y and acce</mark> ss control	
E-services	MCAs have implemented strategies/programmes and policies	
sensitization	for creating awareness on the role of information and ICT for the	
and Awareness	improvement of quality of life and national development	
eLearning on	National and counties governments have implemented citizen	
eservices	online education platforms for e-services	
Competency	National and counties governments have conducted competencies	
surveys	surveys to determine the level of ICT literacy and adoption by the	
	citizens	

ANNEX A.17: ICT COMPETENCY REQUIREMENTS FOR CITIZENS

ANNEX A.18: ACCREDITATION OF ICT INSTITUTIONS /TRAINING PROVIDERS

Requirement	Indicator		Compliance	
		YES	NO	
Legislative	Registration as a legal entity			
Requirements	Registration with KRA			
	Registration with ICT Authority			
	Audited financial statement			
	Health and safety certificate			
	Owner registration document/lease agreement. (Proof of			
	Ownership or Lease Agreement of learning facilities)			
Contact	Provider has functional office.			
information				
	Provider can provide postal address.			
	Provider can provide physical.			
	Provider has telephone and fax facilities.			
	Provider has email and internet facilities.			
Administration	Provider has Business plan.			
Systems				
	Provider has Organ gram which outlines different job positions for			
	the functionality of the organisation, indication of filled and vacant			
	position where applicable.			
HR Policies and	Staff recruitment, selection and appoi <mark>ntm</mark> ent policies and			
Procedures	procedures.			
	Staff Performance Management.			
	Skills Audit and Staff Development Procedure			
Management of	Facilitators, Assessors and Moderators CV's,			
Staff	Facilitators, Assessors and Moderators Qualifications			
	Assessors and Moderators registration letters from ICTA.			
	Facilitators, Assessors and Moderators employment contracts			
	outlining job			
Learner	Learner Recruitment			
Management	Admission policy and procedure			
	Cancellation policy and procedure			
	Guidance and support Policy and Procedure			
	Placement policy and procedure			
Assessment	Assessment policy and procedure.			
Management				
	Moderation policy and procedure.			
	Certification policy and procedure.			

Curriculum	Purpose of programme.	
Programme	Targeted group	
Outline	Duration/Notional Hours	
Curriculum	Qualification/Unit Standard Title	
Alignment/	An ID	
Mapping	National ICT Qualification Framework Level	
against	Credits	
registered	Unpacking of every unit standard; its specific outcomes and	
ICT National	assessment criteria	
Qualification/	Material where they are covered.	
Standard	Chapters, paragraphs and page numbers.	
Otaniaara		
	How they are coveredDelivery strategy.	
	 Learning strategy. 	
	How they are assessed	
	Assessment methods	
	Assessment tools.	
	Frequency of assessment	
	Dequired learning recourses	
	Required learning resources. • Learner Materials.	
	Facilitator Material.	
	Assessment Guide	
	Floor Plan of the learning facilities	
Learning	Number of Inventory list of Training equipment and furniture -	
environment	Adequacy and appropriateness of equipment /resources.	
	Number of Functional computers	
	Layout of the Network-topology	
	Number of Software and relevance to programmes offered.	
	Testing centre with required equipment (evidence of vendor	
	certification of test centre)	
	Organization web portal	
	Digital /eLearning portal for continuous learners learning	
	Internet & E-mail connectivity	
Customer Care	Waiting rooms	
	Clear reception area	
	Tea rooms	

Health	Adequate bathrooms/toilets
Compliance	Cleanliness
Safety	First Aid Kit
Measures	Adequate fire extinguishers
	Cables neatly placed.
	Emergency exits.

ANNEX A.19:ACCREDITATION OF ICT PROFESSIONALS

1. REGISTRATION OF ICT PROFESSIONALS

Applicant should be compliant with the standard on ICT Human Capital and workforce development, both ethically and in terms of professional qualifications in the area of expertise. ICT Authority shall issue a certificate of accreditation on compliance with the standard. To commence the registration process, ICT Authority will register ICT Professionals according to four categories of registration. The professional registrations category includes the following:

- a. ICT Professional
- b. ICT Practitioner
- c. ICT Graduate
- d. ICT Technician

2. CODE OF PROFESSIONAL CONDUCT

Registered professionals and ICTA accreditation/certification holders shall:

- 1. Perform their duties with objectivity, due diligence and care, in accordance with professional IT standards and procedures for effective governance and management of Information and Communications Technologies.
- 2. Serve for public good in a lawful manner, while maintaining high standards of conduct and character.
- 3. Maintain the privacy and confidentiality of information obtained in the course of their activities.
- 4. Perform services only in areas of their competence
- 5. Inform appropriate parties of the results of work performed including the full disclosure of all significant facts
- 6. Support the professional education of stakeholders in enhancing their understanding of the governance and effective management of information and communications technology. Failure to comply with this Code of Professional Ethics can result in an investigation into a registered professional or accredited holder's conduct and, ultimately, in disciplinary measures including exclusion from the roll of IT professionals.

3. APPLICATION PROCESS

Step 1: Registration

Please visit the ICT Authority website www.icta.go.ke/standards/resources/ and check if you meet the criteria for the registration category you wish to apply for, fill in details on the form then submit to the ICT authority offices. Pay the registration fee as tabulated below;

	REGISTRATION FEES	ANNUAL FEES
ICT TECHNICIAN	600	500
ICT GRADUATE	1000	1000
ICT PRACTITIONER	2000	1000
ICT PROFESSIONAL	5000	3000

Table 1:- Registration of ICT professionals

In case of any difficulties or in need of more details please contact us via email standards@ict.go.ke

Step 2: Assessment Evaluation

ICT Authority will conduct an evaluation of your application to make the decision on whether your application is successful or not. You will be notified within 60 days of application on the application evaluation decision. The ICT Authority may contact individual's referees to ascertain the information filled in the applicant's application form.

REGISTRATION FORM

PERSONAL INFORMATION		
Personal Details	Surname	
	Other Names	
	ID Number	
	Date of birth	
	Gender	
	Telephone	
	Email	
Home Address	Town/City	
	Address	
	Postal code	
	Country	
	Residence	
Details of Employer	Employer Name	
	Telephone	
	E-mail	
Details of Contact Person	Name	
	Telephone	
	E-mail	
MEMBERSHIP CATEGORY		SELECT CATEGORY
ICT Technician Form:(ICTA/STD/TECH/F001)	Application fee: Ksh. 600 Annual subscription:Kshs.500 Submit • A duly filled Registration Application form for ICT Technician (ICTA/STD/TECH/ F001) and signed Code of Conduct (ICTA/STD/PR0F/F005) • Diploma certificate in ICT/ Engineering related field from accredited institution of learning; or Diploma certificate in any field from accredited institution of learning with proof of two years' experience practicing ICT;	SELECT CATEGORY

	Copy of National ID/Passport.Fees as above.	
ICT Graduate Form: ICTA/STD/GRAD/F002	Application fee: Ksh. 1000 Annual subscription: Kshs. 1000 Submit • A duly filled Registration Application form for ICT Technician (ICTA/STD/TECH/F002) and signed Code of Conduct (ICTA/ STD/PROF/F005) • Graduate certificate in ICT/ Engineering related field from accredited institution of higher learning • Copy of National ID/Passport. • Fees as above.	
ICT Practitioner Form:(ICTA/STD/PRACT/F003)	Application fee: Ksh. 5000 Annual subscription: Kshs.1000 Submit • A duly filled Registration Application form for ICT Practitioner (ICTA/STD/PRACT/ F003) and signed Code of Conduct (ICTA/STD/PROF/F005) • Proof to show that the applicant has been practicing ICT either through employment or private engagement for at least 2 years. • Copy of National ID/Passport • Fees as above.	
ICT Professional FORM:(ICTA/STD/PROF/F004)	Application fee: Ksh. 5000 Annual subscription: Kshs.3000 Submit • A duly filled Registration Application form for ICT Professional (ICTA/STD/PR0F/F004) and signed Code of Conduct (ICTA/STD/PR0F/F005)	

Graduate certificate in ICT/ Engineering related field from	
accredited institution of	
Higher learning or A Copy of	
the Registration Certificate for	
either ICT Graduate/Practitioner	
from ICTA.	
Professional Certificate in the	
specific area from recognized	
institution by ICTA/government	
body	
• Letters of reference from	
employer(s)	
covering the previous two	
years confirming professional	
integrity	
 Statements of two referees 	
detailing their knowledge of the	
applicant.	
Fees as above.	

4. Continuous Professional Development (CPD)

CPD is defined as the undertaking of development activities that lead to the systematic maintenance, improvement and broadening of knowledge and skills, and the development of personal qualities necessary for the execution of professional and technical duties throughout a person's ICT professional career.

CPD Requirements

- a) Certified Professionals (CP) must complete 90 CPD hours over a period of three years.
- b) Members shall demonstrate commitment to professional development via written evidence of CPD activities.
- c) Sources of CPD
- Attend conferences, seminars, training courses, presentations.
- Present papers at conferences and seminars, write articles for journals (Contributions to knowledge)

ANNEX A.20:INFORMATIONAL CHECKLIST

ICT shall ensure that IT personnel recruitment processes are in line with the overall Government personnel policies and procedures Management shall implements processes to ensure that the organization has an appropriately deployed IT workforce that has the skills necessary to achieve organizational goals ICT Managers in MCAs shall regularly verify that personnel have the competencies to fulfill their roles on the basis of their education, training and/or experience. ICT Managers in MCAs shall define core IT competency requirements and verify that they are being maintained, using qualification and certification programs where appropriate. These are essential and mandatory foundation training administered to all ICT technical staff on entry into public sector,	YES	NO
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administered to all ICT technical start on entry into public sector.		
or as a refresher for new deployments in the ICT technical areas.		
The purpose is to equip the technical personnel with essential		
knowledge to demonstrate fundamental concepts of the		
overall government's ,e-service delivery environment and		
code of regulations to effectively manage their specific ICT		
		+
		+
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		-
wnenever appropriate.		
	All employees shall be inducted with appropriate ICT orientation when hired and ongoing training to maintain their knowledge, skills, abilities, internal controls and security awareness at the level required to achieve organizational goals. MCAs shall be required to perform timely evaluation on a regular basis against individual objectives derived from the organization's goals, established standards and specific job responsibilities. Each MCA shall establish an ITCB results oriented performance management system which should be implemented in the context of the MCA strategic plan. MCA shall incorporate specific ICT training and capacity building performance indicators in the performance contract of the ICT function and ensure that the same indicators are reflected at higher levels of the performance contracting. Employees should receive coaching on performance and conduct whenever appropriate.	All employees shall be inducted with appropriate ICT orientation when hired and ongoing training to maintain their knowledge, skills, abilities, internal controls and security awareness at the level required to achieve organizational goals. MCAs shall be required to perform timely evaluation on a regular basis against individual objectives derived from the organization's goals, established standards and specific job responsibilities. Each MCA shall establish an ITCB results oriented performance management system which should be implemented in the context of the MCA strategic plan. MCA shall incorporate specific ICT training and capacity building performance indicators in the performance contract of the ICT function and ensure that the same indicators are reflected at higher levels of the performance contracting. Employees should receive coaching on performance and conduct

	MCAs shall take expedient actions regarding job changes,	
	especially job terminations to ensure knowledge transfer needs	
	to be arranged, responsibilities reassigned and access rights	
	removed such that risks are minimized and continuity of the	
	function is guaranteed	
Training strategies	Each MCA shall develop a strategic ICT training framework to	
	address the training priorities articulated in the Vision 2030 and	
	national ICT Master plan and shall be guided by the strategic	
	objectives of the MCA a strategy framework under which the ICT	
	training is implemented shall be communicated and understood by	
	all HRD's and ICT functions.	
Competency	Each ICT professional shall have defined minimum ICT skills/	
Framework	qualifications to ensure that they have the knowledge to perform	
	the ICT activities.	
	There shall be a program to upgrade the skills, qualifications,	
	competencies of those employees who do not meet that minimum	
	threshold.	
Mode of Training	The training shall have a blend of elearning and face to face	
Mode of Iralilling	implementation- Classroom/Lab setup, e-Learning	
Institutions		
Institutions delivering	ICT Trainings and capacity building shall be conducted only by	
capacity building	institutions that have been accredited by ICT Authority	
programmes		
e-competency	Each MCA shall undertake a multi-level e-competency	
assessment	assessment on new deployments to ascertain the viable service	
	delivery areas to deploy the staff.	
	Each MCA shall develop its specific e-Competency framework	
	that supports the national ITCB vision. These competencies shall	
	incorporate technical, core skills and soft skills which should be	
	possessed by each player at different levels of proficiency for	
	different e-services. The framework shall include competencies	
	required for service delivery, individual career and entrepreneurial	
	development. In order to achieve competency-based human	
	resource development, the TNA should be cognizant of the	
	mapping of training priorities to the e-competency framework.	
	PPP shall be strengthened to enable knowledge and technology	
	permeation between the government, private sector, institutions of	
	higher learning and non State actors.	

Multi-skilled	MDAs capacity building initiatives shall ensure that ICT technical	
	staffs are multi-skilled, are able to efficiently translate business	
	requirements into technical requirements. ICT technical activities	
	shall be aligned	
Accredited	The government ICT scheme of service shall align the structure	
professional	so as to provide due consideration for accredited professional	
qualifications	qualifications to enable employees who acquire them grow in their	
	public sector careers.	
Incentives and	The MCA shall devise incentives (within the government	
motivation	framework) to retain skilled employees to reduce incidents of	
	brain drain and ensure that the MDAs get the returns on its training	
	investments	
ICT Literacy	MCAs shall ensure there is a minimum ICT literacy, skill and	
adoption	competency for all government employees.	
Multi-skilled	MDAs capacity building initiatives shall ensure that ICT technical	
	staffs are multi-skilled, are able to efficiently translate business	
	requirements into technical requirements. ICT technical activities	
	shall be aligned	
Management skills	ICT training for technical personnel shall include training on	
	management skills that are appropriate for the individual MCA.	
ICT resource	Each MCA shall have an ICT resource, research and development	
centers	center which shall be adequately equipped to handle all	
	challenging ICT issues escalated t <mark>o the</mark> m. This center shall also	
	facilitate other officers in underta <mark>king t</mark> asks that require more	
	powerful, unique, or higher speci <mark>ficatio</mark> n resources. ICT staff shall	
	be facilitated with the tools an <mark>d resou</mark> rces within the MDA in	
	which they provide technical s <mark>upport.</mark>	
	MCAs shall provide a resources center/lab consisting of a min of	
1 1 1	10 computer to enable support staff have access emails services,	
	and provide for e-learni <mark>ng and oth</mark> er eservices.	
	MCAs shall be established Community ICT resource centers to	
	provide public access to government e-services and to enable	
	equal access to government services for all.	
Partnership	NCAs shall set administrative structures to support and monitor	
	community resource centers.	
ICT road shows	MCAs shall partner with the local private institutions, public	
	institutions, cyber centres in the rural areas and provide incentives	
	to deliver e-services.	
	MCAs shall I undertake government e-services awareness and	
	sensitization activities at the local levels	

Management	ICT managers shall provide a key role in the MCA's Training	
of and	Committee (MTC), and ICT personnel shall be involved in the	
mplementation	planning of ICT training activities for all levels of staff in MCAs and	
of capacity	citizens.	
activities	All ICT competencies programs shall be managed/coordinated	
	centrally by ICTA	
Compliance to	The national ICT policy shall prevail and standard shall	
related national	operationalize and support such national ICT policy, national ICT	
policies and	Masterplan.	
priorities	Each MDA shall be responsible for communicating the national ICT	
	agenda.	
	All training shall be undertaken in the context of ICT best practices	
	and as guided by the national ICT policies and guidelines	
Equity and	Capacity building frameworks shall be harmonized and shall	
standardization	reflect the needs of the individual MCAs.	
	There shall be equity in ICT capacity development opportunities	
	for end users to ensure that development of competencies for	
	improved service delivery is across the entire public service.	
	Group training shall be planned and executed based on the	
	circumstances of the various target groups to ensure that all	
	employees, irrespective of their age, get trained and achieve the	
	objective of such training.	
	Each training program shall inculcate the ICT value systems and ICT professional ethics in the public sector	
Skills inventory	MCAs have implemented an skills inventory database systems	
systems	that provide framework for Monitoring and evaluating ICT training	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	programmes and skills levels	
	Each MCA shall keep an up to date skills inventory and training	
	database of its end users. Such records will inform ICT staff career	
	growth as well as inform on literacy level to meet competency and	
	institutional requirements of those skills.	
	MCAs provide evidence for every training undertaken and shall	
	include a training report, dissemination of curricula contents and a	
	knowledge sharing mechanism.	
Monitoring	Each MCA shall employ an appropriate and continuous	
and evaluation	improvement, monitoring and evaluation framework to assess the	
framework	impact of the ICT training investments. This assessment shall be	
	undertaken annually before the next planning period.	

Training	All ICT training programmes shall comply with an approved/	
curriculums	acceptable curriculum so as to ensure that the trainees acquire	
	the competencies and deliver the value that the training was	
	intended. ICT training curricula developments shall be aligned to	
	the national government's ICT objectives and government pledges	
Training	ICT Trainings for the public servants and the citizens will only be	
institutions	conducted by institutions certified and accredited by ICTA	
	The MDA shall ensure that training is only conducted in accredited	
	institutions using the approved curricula. Qualifications from	
	non-accredited training providers shall not be recognized by the	
	Government.	
	There shall be an accreditation review forum for all the public	
	service and private training providers (KSOG, KIM, Universities,	
	NGOs, etc). The forum shall liaise with relevant accreditation	
	bodies such as the Kenya Qualifications Agency established by	
	the Kenya Qualifications Framework Bill (2012) and shall guide	
	on authentication of training certifications, examining bodies,	
	curricula, minimum training durations, type of training providers,	
	etc.	
Professionalism	Each MCAs shall adhere to the requirements of a national ICT	
Troicssionatism	professional body to vet ICT training quality. In the absence of the	
	professional body, the MCA shall adequately consult other relevant	
	ICTA to ensure that ICT training activities are done professionally	
	and harmonized across the public sector.	
Induction,	Each MCAs shall implement mechanism for staff induction	
coaching and	program, mentoring and coaching, over and above the conventional	
mentorship	ICT training, to ensure that staff career growth.	
	Induction of ICT staff will be essential in ensuring that they provide	
	critical support that is line with the core functions of the MDA.	
TNA	Each MCA shall undertake comprehensive Training Need	
INA	Assessment (TNA) during the budgeting period to ensure ICT	
	training plans shall be based on actual and current needs and give	
	feedback on prioritizations through transparent processes.	
Youth Internships	Each MCA, provide internship and management graduate	
i ootii iiitei iisiiips	trainee programs to the youth to ensure they gain experience for	
	employability	
	Special ICT talents and innovations shall be identified and nurtured	
	opoolario i tatento ana mnovationo onati de lucitimen ana noi tolen	

Information	Each MCA shall conduct an on-going information security	
security	awareness and training program for all employees to explain	
awareness	specific ICT security responsibilities and practices. Information	
	Security personnel within the ICT department and functional	
	heads shall be responsible for developing, implementing, and	
	maintaining the awareness and training program.	
Citizen training	Each NCAs shall establish centers for training and shall be placed	
locations	in locations convenient to the citizens, such as shopping malls	
	and major public transportation hubs. They shall offer citizens	
	tremendous time savings, while also delivering services with	
	greater courtesy and professionalism and reducing overhead	
	expenses of the government	
Training manual	A training manual shall be developed for end user and citizens	
	training programs to ensure that capacity building are harmonized	
ICT training	MCAs develop an ICt training strategy	
Strategy		
ICT Capability	Are MCAs implemented a capability framework in training of	
framework	personnel	

APPENDIX I: IMPLEMENTATION

Implementation of Standards will be the responsibility of individual MCA while ICTA shall provide enforcement and an oversight role for its implementation.

ROLES AND RESPONSIBILITIES

MCAS RESPONSIBILITIES

ISSUE	DESCRIPTION AND REQUIREMENT	
ICT policies and guidelines	MCAs shall develop ICT policies and strategies to enable citizens	
	enhance their capacities to consume and interact with government	
	services.	
	In circumstances where the ICT human capacity standards	
	implementation is challenging, specific Government policies and	
	guidelines shall provide how the objectives will be achieved.	
Performance management	MCAs shall integrate the Standards into their strategic planning	
	cycle and performance management system to provide a sustained	
	implementation.	

ICT AUTHORITY RESPONSIBILITIES

ISSUE	DESCRIPTION AND REQUIREMENT
Coordination	a. Provide oversight, enforcementand coordination role for the
	management and review o <mark>f the</mark> standard standards
	b. Develop ,review the sta <mark>ndard</mark> s and required policies and frameworks
	and cascad to the relevant bodies
	c. Champion and act as a clearing house for ideas and information of the
	e-Competency Standards and process in Kenya
	d. Inform on best practices, global trends, international practices of
	e-Competency Standards
Auditing	Human capacity standards shall be implemented in all government
	services through its monitoring & evaluation oversight function.
Resources	Shall ensure adequate mechanisms are put in place to operationalize and
	sustain the Capacity competency activities
Stakeholder engagement	Provide a platform for engaging all the stakeholders within the
	government and other sector players on the development and
	administration of the e-Competency framework in the public sector

Standard committees	a. Establish a national ICT Human capital standards sub-committee in	
	conjunction with private sector alliances that contribute to the national	
	ICT capacity objectives and gather likeminded institutions to develop	
	methodologies for standards implementation.	
	b. This committee shall work in collaboration with the national standards	
	and quality assurance entity in the government.	
	c. A national ICT Standards secretariat shall be established within ICTA to	
	monitor compliance to Capacity Competency Standards. This committee	
	shall be part of the national standards development and regulatory body	
Certification	ICTA shall certify all firms and professionals in the iCTA sector as per the	
	standards and policies on accreditation and professionalism	

APPENDIX II: MONITORING AND EVALUATION

- 1. An M&E framework as a management tool shall be used to enable continuous and timely feedback mechanisms tostrengthens and rectify deficiencies
- 2. The M&E structure shall facilitate the necessary ICT capacity building; prompt decision-making; accountability to stakeholders; and objectivity.
- 3. The framework shall ensure that a suitable results-oriented approach is adopted and institutionalized for human capital activities.
- 4. MCAs shall develop capacity indicators and reporting mechanisms to ensure that the agreed standard objectives are monitored effectively.
- 5. There shall be regular review of the standard to ensure it remains relevant to the modern day realities.
- 6. The standards shall be used as reference points to ensure public compliance to capacity competency activities.
- 7. The e-competency framework and national qualification framework shall provide the parameters and indicators for comparing the competency levels with the implementation status.

NATIONAL LEVEL	The national entity responsible for standards, quality assurance and compliance will monitor the implementation of this policy based on a systematic approach to ITCB
MCA	Each MCA will develop a Training Management Information System (TMIS) to administer all aspects of ITCB strategy.
TRAINEES	The trainees will comply with the specific training requirements as established in the human capital standards
TRAINING INSTITUTION/ PROVIDERS	This will be based on accreditation. Pre-training and post-training information on courses, trainer resources and course content based on pre-determined criteria and intended impact shall be provided to the MCAs upon completion
AMENDMENTS	This ICT competency standard shall be reviewed at most every five years. However, the MCA in charge of executing the policy may, from time to time, propose amendments that are necessary to enhance the objectives of this policy. Before the completion of such amendments, the ICTA Chief Executing office shall provide opportunities to its stakeholders to comment on the proposal

CONCLUSION

In order to implement the ICT human capital Standards, the government shall develop capacity building and competency framework, human capital development and management policy, National ICT qualification framework, Institution accreditation framework and policy in order to align to international IT best practice.

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