BUILD SECURE NETWORK

UNIT CODE: SEC/OS/CS/CR/04/6/A

UNIT DESCRIPTION

This unit covers the competencies required in building secure network. It involves confirming user requirements and network equipment, reviewing security issues, analyzing network security protocols and features, designing and perimeters, installing and configuring perimeter solutions, configuring internal network devices, testing and verifying design performance and preparing network report.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key	These are assessable statements which specify the
outcomes which make up	required level of performance for each of the elements
workplace function.	(Bold and italicised terms are elaborated in the Range)
Confirm user requirements and network equipment	 Network use is identified as per the organizations ICT policy and industry best practices Equipment and network topology are established in line with workplace procedures Network speed is established as per its source Number of network users are determined in line with organization requirement Perimeter type is identified as per the organization
	requirements 1.6 Security perimeters is established from the
	organization's objectives 2.1 Security threats in the organization are identified as
2. Review security issues	per the its set up 2.2 Security issues are reviewed as per the industry best practices 2.3 Security control measures in the organization are identified in line with the ICT policy
3. Analyse network security protocols and features	 3.1 Types of network security protocols are identified as per the industry best practice 3.2 Application of network security protocols are established in line with the industry best practice 3.3 Required network security protocols are established as per the client's requirements
Plan and design perimeter solution	 4.1 Perimeter solution is designed as per the expected use and industry best practices 4.2 Perimeter schedule is designed in line with the organization ICT policy

ELEMENT	PERFORMANCE CRITERIA
These describe the key	These are assessable statements which specify the
outcomes which make up workplace function.	required level of performance for each of the elements
	(Bold and italicised terms are elaborated in the Range)
1	4.3 Perimeter design is approved as per the clients
	requirements
	4.4 Perimeter design is tested for its functionality as per
	the expected objectives
5 Install and sanfine	5.1 Perimeter solution system is acquired in line with
5. Install and configure perimeter solutions	the design
permieter solutions	5.2 System is installed as per the design and the
	organization ICT policy
	5.3 System is configured as per the manufacturers
	guidelines
	5.4 Perimeter solution installed is tested as per the
	organization ICT policy
	5.5 Parameters to be configured are identified as per
	the design
6. Configure internal	6.1 Devices to be configured are identified from the
network devices	system design 6.2 Internal devices compatibility are compared with
	6.2 Internal devices compatibility are compared with the designed system
	6.3 Internal network devices are configured as per
	manufacturers guidelines
	6.4 Network devices are integrated to the security
	perimeter as per the organization ICT policy
7. Test and verify design	7.1 Types of tests are identified as per the systems
performance	efficiency
performance	7.2 System performance test is conducted according to
	workplace procedures
	7.3 Errors are checked and debugged as per the design
	7.4 Threats are simulated in performance verification
	as per the work place procedures
	7.5 Continuous monitoring of security perimeter
	performance is conducted as per the organization
	policy
8. Prepare network report	8.1 Network reports are prepared in line with the
	organizations approved format
	8.2 Network reports are shared with relevant parties as
	per the organization policy 8.3 Network reports are documented and filled
	according organization filing system
	according organization ming system

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	These are assessable statements which specify the required level of performance for each of the elements (Bold and italicised terms are elaborated in the Range)
	8.4 Network design recommendations are prepared and shared with the relevant parties

RANGE

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. ICT	Software
components	Hardware
and	People
infrastructure	Data
may include	Procedures
but not limited	Information
to:	127

REQUIRED KNOWLEDGE AND UNDERSTANDING

The individual needs to demonstrate knowledge and understanding of:

- Troubleshooting techniques
- ICT Infrastructure auditing procedures
- ICT safety and precautious measures
- ICT Prevention measures
- Performance monitoring techniques
- ICT policy
- Causes of hardware and software failure
- Components of ICT Infrastructure
- User training procedures

FOUNDATION SKILLS

The individual needs to demonstrate the following additional skills:

Communications (verbal and	 Decision making;
written);	 Report writing;
 Proficient in ICT; 	
Time management;	
Analytical	
Problem solving;	
Planning;	

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and understanding and range.

Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Identified perimeter type as per the organization requirements
	1.2 Identified security threats in the organization as per its set up 1.3 Identified security control measures in the organization in line with the ICT policy
	1.4 Types of network security protocols are identified as per the industry best practice
	1.5 Designed perimeter solution with self-defensive mechanism1.6 Tested perimeter design functionality as per the organization objectives
	1.7 Configured the system as per the manufacturers guidelines1.8 Installed perimeter solution was tested as per the organization ICT policy
	1.9 Configured internal network devices as per manufacturers guidelines
	1.10 Integrated network devices to the security perimeter as per the organization ICT policy
2. Resource	The following resources should be provided:
Implications for competence certification	2.1 Access to relevant workplace where assessment can take place
	2.2 Appropriately simulated environment where assessment can take place
2 16 1 1 6	2.3 Materials relevant to the proposed activity or tasks
3. Methods of Assessment	Competency may be assessed through: 3.1 Oral questioning
Assessment	3.1 Oral questioning 3.2 Practical demonstration
	3.3 Observation
4. Context of	Competency may be assessed individually in the actual

Assessment	workplace or through simulated work environment
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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