Australian Government

UEECS0023 Install and configure network systems for internetworking

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to install and configure network systems for internetworking.

It includes applying safe working practice, installing and configuring routers, and documenting installation and configuration activities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

Competency Field

Computer Systems

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Prepare to install and configure internetworking systems	**1.1** Work health and safety (WHS)/occupational health and safety (OHS) processes and workplace procedures for a given work area are identified, obtained and applied
	1.2 WHS/OHS risk control measures and workplace procedures in preparation for the work are followed

		1.3	Internetworking installation and configuration are determined from internetworking performance specifications and in consultation with relevant person/s
		1.4	Media and software required for internetworking is selected in accordance with workplace procedures
		1.5	Network cabling test reports are obtained and reviewed to determine internetworking systems in accordance with relevant industry standards
		1.6	Activities are planned in accordance with workplace procedures for timelines and in consultation with others involved
		1.7	Development tools and software are selected in accordance with relevant industry standards
		1.8	Strategies are implemented to ensure network development is carried out efficiently
2	**Install and configure internetworking systems**	2.1	WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
		2.2	Internetworking arrangements, sub-netting and routing protocols are applied to installing, configuring routers and transmission control protocol (TCP)/internet protocol (IP) addresses
		2.3	Routing protocols are selected and configured as specified for internetworking systems
		2.4	Routing, TCP/IP and access malfunctions are identified and rectified using solutions of basic internetworking arrangements and protocols
		2.5	Approaches to issues/problems are analysed to provide effective solutions
		2.6	Quality of work is monitored in accordance with workplace procedures and relevant industry standards
3	**Complete documentation of internetworking systems**	3.1	Justification for internetworking installation and configuring activities is documented and relevant person/s notified in accordance with workplace procedures
		3.2	Network services records are maintained in accordance with workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Installing and configuring internetworking systems must include at least the following:	between two:
	• local area networks (LANs) to form a wide area network (WAN)
	or
	• a LAN and the internet

Unit Mapping Information

This unit replaces and is equivalent to UEENEED117A Install and configure network systems for internetworking.

Links

Companion Volume implementation guides are found in VETNet - - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6