



Australian Government

UEECS0021 Install and administer UNIX/LINUX-based networked computers

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 administer UNIX/LINUX-based networked computers.

It includes safe working practices, performing UNIX/LINUX, LINUX or Mac OSX operating system installation, administration functions of logging in and out, setting up graphic user interface (GUI) applications, manipulating text files, creating and searching files and directories, changing permissions, using text editors, identifying and modifying initialisation files, streamlining command, execution using shell features, using network commands and documenting all administration activities.

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

Pre-requisite Unit

Not applicable

Competency Field

Computer Systems

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to install, upgrade and maintain

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures

network operations		for a given work area are identified, obtained and applied
	1.2	Scope of the administration work is determined from network specifications and in consultation with relevant person/s
	1.3	Activities are planned in accordance with workplace procedures for timelines and consultation with others involved
	1.4	UNIX/LINUX system variants, versions and updates required to maintain computers and networks are identified and obtained in accordance with workplace procedures and job specifications
2 Install, upgrade and maintain UNIX/LINUX-based computers and network operations	2.1	UNIX/LINUX operating system is installed, upgraded and configured on computers and servers in accordance with developer instructions and network requirements
	2.2	Desktop environment, network protocols and services and system security are implemented in accordance with workplace procedures and job specifications
	2.3	Access to resources is configured and limitations specified for users in accordance with workplace procedures and job specifications
	2.4	UNIX/LINUX-based network malfunctions are identified and rectified in accordance with workplace procedures and job specifications using tests of devices and drivers, storage, network protocols, connections and services and system security configuration processes
	2.5	Network performance and reliability is monitored and optimised in accordance with workplace procedures
	2.6	UNIX/LINUX-based network administration is carried out efficiently without waste of materials and energy or damage to apparatus, the surrounding environment or relevant services
3 Document network administration activities	3.1	Written justification is produced for network upgrading and maintenance and relevant person/s notified in accordance with workplace procedures
	3.2	Network administration and documentation 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 the operating system and administering must include at least the following:

- two networked computers
- one of the following:
 - UNIX
 - LINUX

Unit Mapping Information

This unit replaces and is equivalent to UEENEED113A Install and administer UNIX based networked computers.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>