UEEDV0009 Select and arrange data and voice equipment for local area networks

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 select and arrange data and voice equipment for local area networks (LANs).

It includes selecting compliant equipment, arranging locations of equipment and cable routes, applying solutions based on calculated measures and completing network documentation.

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

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0020 Fix and secure electrotechnology equipment

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

UEEDV0005 Install and maintain cabling for multiple access to telecommunication services

UEEDV0008 Install, modify and verify coaxial and structured communication copper cabling

UEEDV0006 Install and modify optical fibre performance data communication cabling

and

UEECD0043 Solve problems in direct current circuits

or

UEECD0044 Solve problems in multiple path circuits

UEECD0046 Solve problems in single path circuits

Competency Field

Data and Voice

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 select equipment	**1.1** Scope of work communications network is determined from documentation and/or discussions with relevant person/s
	1.2 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for the communications network area are identified, obtained and applied
2 Arrange locations of equipment and cable routes	**2.1** Location of equipment is arranged in accordance with job specifications and relevant industry standards
	2.2 Cable routes are planned to ensure maximum lengths in accordance with relevant industry standards and manufacturer specifications
	2.3 Cable routes are planned in accordance with job specifications and relevant industry standards
	2.4 Earthing is arranged in accordance with job specifications and relevant industry standards
3 Select cables and equipment	**3.1** Cable types are selected for the environment/s and performance requirements in accordance with job specifications and relevant industry standards
	3.2 Cable sizes are selected for capacity and performance requirements in accordance with job specifications
	3.3 Earthing components are selected for earthing requirements in accordance with job specifications and relevant industry standards
	3.4 Network equipment is selected in accordance with WHS/OHS requirements and relevant industry standards

	3.5	Electronic equipment types are selected for the environment/s and performance requirements in accordance with job specifications and relevant industry standards
4 Document communications network	4.1	Justifications for selections of cable and electronic equipment and relevant calculations are documented in accordance with workplace procedures
	4.2	Communications network arrangement and specifications for all selected items are documented in accordance with workplace procedures and forwarded to relevant person/s

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.

Selecting and arranging equipment for LANs, comprising a distribution frame, must include at least the following:

- two fibre outlets
- 20 sets of two data outlets
- one private automatic branch exchange customer access equipment (CAE)
- or Virtual PBX
- one server

Unit Mapping Information

This unit replaces and is equivalent to UEENEEF110A Select and arrange data and voice equipment for local area networks.

Links

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