



Australian Government

UEEDV0010 Select and arrange equipment for wireless communication networks

Release: 1

UEEDV0010 Select and arrange equipment for wireless communication networks

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 equipment for wireless communication networks.

It includes selecting compliant equipment, developing wireless communication network arrangements, complying with regulations (based on calculations), justifying solutions 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

Competency Field

Data and Voice

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to select equipment

PERFORMANCE CRITERIA

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

- 1.1 Scope of the communications network is determined from job specifications
- 1.2 Work health and safety (WHS)/occupational health and safety (OHS) processes and relevant industry standards

		for the wireless 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 and installed for the environments in accordance with job specifications and relevant industry standards
	3.2	Cable sizes are selected in accordance with job specifications and relevant industry standards
	3.3	Earthing components are selected in accordance with job specifications and relevant industry standards
	3.4	Network equipment is selected and documentation obtained in accordance with WHS/OHS requirements
	3.5	Electronic equipment is selected for the environments in accordance with job specifications and relevant industry standards
4 Document communications network	4.1	Justification for selection of equipment and calculations are documented in accordance with workplace procedures
	4.2	Wireless network equipment for 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.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEF108A Select and arrange equipment for wireless communication networks.

Links

Companion Volume implementation guides are found in VETNet - -

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

Assessment Requirements for UEEDV0010 Select and arrange equipment for wireless communication networks

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - using risk control measures
- arranging and selecting earthing components
- arranging earthing
- arranging locations of equipment and cable routes
- arranging network equipment
- documenting installation arrangement, specification for items selected and reasons for the selections made
- documenting justification for selection and calculations
- planning and selecting types and sizes of cables
- planning cable routes
- selecting electronic equipment types for the environment
- selecting network equipment and obtaining documentation of equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- operating systems and networks
- relevant cable routes and earthing
- relevant cables, components and equipment
- relevant industry standards
- relevant manufacturer specifications and installing instructions
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation, including:
 - wireless network documentation

- relevant workplace policies and procedures
- wireless network components for local area networks (LANs) and wide area networks (WANs)
- wireless network configurations
- wireless network security.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- relevant and appropriate materials, tools, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to selecting and arranging equipment for wireless networks
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

Companion Volume implementation guides are found in VETNet - -

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