



Australian Government

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

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, modify and verify coaxial and structured communication copper cabling in buildings and premises intended for connection to a telecommunications network as permitted by the Australian Communications and Media Authority (ACMA).

It includes working safely to industry standards; installing generic, structured twisted pair cabling (category 5 and above) and coaxial cabling that terminate at distributors, termination modules and telecommunication outlets; testing for compliance; and completing cabling documentation.

Work functions in the occupational areas where this unit may be used are subject to regulatory requirements. Refer to the UEE Electrotechnology Training Package Companion Volume Implementation Guide or the relevant regulator for specific guidance on requirements.

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 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

Elements describe the essential outcomes.

1 Prepare to install and/or modify copper cabling

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 for a given work area are identified and applied
- 1.2** Hazards are identified, risks are assessed and control measures are implemented
- 1.3** Installation or modification of wiring is coordinated after consultation with relevant person/s affected by the work
- 1.4** Nature and location of work is obtained from relevant person/s and/or documentation, diagrams, cable layout drawings and cable schedules to determine the scope and details of work to be undertaken
- 1.5** Cable routes are planned in accordance with relevant regulations, constraints of the building structure, fire walls, cultural/heritage requirements and regulations
- 1.6** Advice is sought from relevant person/s to ensure work is coordinated effectively with others
- 1.7** Material required for the installation work is determined and obtained in accordance with workplace procedures and checked against job requirements
- 1.8** Tools, equipment and testing devices required for the installation are obtained in accordance with workplace procedures and checked for correct operation and safety
- 1.9** Preparatory work is checked to ensure compliance with regulations, workplace procedures, safety and job requirements

2 Install or modify copper cables

- 2.1** WHS/OHS risk control measures and workplace procedures for carrying out the work are followed

- 2.2 Cables are installed or modified with sufficient excess to affect terminations in accordance with manufacturer specifications, technical standards and job requirements
 - 2.3 Cable installation/modification is carried out without waste of materials or damage to apparatus, circuits or the surrounding environment and using sustainable energy practices
- 3 **Terminate copper cables**
 - 3.1 WHS/OHS risk control measures and procedures for work completion are followed
 - 3.2 Cable termination work area is cleaned and safety measures implemented
 - 3.3 Cables are prepared for termination in accordance with manufacturer specifications, technical standards and workplace procedures
 - 3.4 Surge suppression devices are fitted to cables with metallic components in accordance with manufacturer specifications, technical industry standards and workplace procedures
 - 3.5 Cable shields are earthed in accordance with manufacturer specifications, technical standards and workplace procedures
 - 3.6 Twist ratio of generic, structured metallic cables is maintained in accordance with manufacturer specifications and technical standards
 - 3.7 Twisted pair cables are terminated in accordance with manufacturer specifications, technical standards and workplace procedures
 - 3.8 Cable performance tests are conducted accurately and results documented in accordance with workplace procedures
 - 3.9 Cause of defects indicated by inspection and test results are identified and rectified in accordance with manufacturer specifications, technical industry standards and workplace procedures
 - 3.10 Regular quality checks of the installed wiring are undertaken in accordance with workplace procedures
 - 3.11 Cable terminations are carried out without waste of

		materials, damage to apparatus, circuits or the surrounding environment and using sustainable energy practices
4 Verify and document copper cabling installation and performance	4.1	WHS/OHS risk control measures and workplace procedures for work completion are followed
	4.2	Final checks are made to installed cabling to ensure it conforms to performance requirements and regulations
	4.3	Telecommunications cabling advice (TCA) forms are completed in accordance with workplace procedures and issued to relevant person/s
	4.4	Worksite is cleaned and made safe 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, modifying and verifying coaxial and structured communication copper cabling must include:

- distributor frames
- patch panels
- a range connectors/outlets
- a range of cable types

Unit Mapping Information

This unit replaces and is equivalent to UEENEEF104A Install, modify and verify coaxial and structured communication copper cabling.

Links

Companion Volume implementation guides are found in VETNet - -

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