Australian Government

UEEDV0006 Install and modify optical fibre performance data communication 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 and modify optical fibre performance data communication cabling.

It includes working safely, installing optical fibre cabling, terminating at distributors, testing and compliance checks, and completing cabling 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

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 install and modify optical fibre cabling

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified, obtained and applied

1.2 Installation and modification of wiring is prepared in consultation with others and sequenced appropriately

1.3 Scope of work is determined from documentation and/or discussions with relevant person/s

1.4 Advice is sought from relevant person/s to ensure work is coordinated effectively with others

1.5 Material required for the installation work is obtained in accordance with workplace procedures and job requirements

1.6 Tools, equipment and testing devices required for the installation work are obtained in accordance with workplace procedures and checked for correct operation and safety

1.7 Preparatory work is checked to ensure no damage has occurred and is in accordance with workplace procedures and relevant industry standards

2 Install and modify optical fibre cables

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

2.2 Optical fibres are tested for optical continuity

2.3 Cables are installed and modified with sufficient excess to affect terminations in accordance with manufacturer specifications, relevant industry standards and job requirements

2.4 Methods for dealing with unplanned situations are discussed with relevant person/s for approval and documented in accordance with workplace procedures

2.5 Unplanned situations are dealt with safely and with the approval of relevant person/s

2.6 Quality checks of the installed wiring are conducted in accordance with workplace procedures

2.7 Cable installation and modification is conducted without waste of materials, damage to apparatus, circuits or

			surrounding environment using sustainable energy practices
3	**Terminate optical fibre cables**	**3.1**	WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
		3.2	Cable termination work area and optical fibre cables are cleaned and safety measures implemented in accordance with WHS/OHS requirements and workplace procedures
		3.3	Cables are prepared for termination in accordance with manufacturer specifications and relevant industry standards
		3.4	Optical fibre connectors are fitted in accordance with manufacturer specifications and relevant industry standards
		3.5	Relevant methods are used to splice optical fibre cables in accordance with WHS/OHS requirements, manufacturer specifications and relevant industry standards
		3.6	Cable performance tests are conducted and results documented
		3.7	Causes of defects indicated by test results are identified and rectified
		3.8	Unplanned situations are dealt with safely and with the approval of relevant person/s
		3.9	Quality checks of the installed wiring are conducted in accordance with workplace procedures
		3.10	Cable terminations are completed without waste of materials, damage to apparatus, circuits or surrounding environment using sustainable energy practices
4	**Document installation and modification and verify optical fibre cabling performance**	**4.1**	WHS/OHS work completion risk control measures and workplace procedures are followed
		4.2	Worksite is cleaned and made safe in accordance with workplace procedures
		4.3	Final checks to the installed cabling are conducted in accordance with job requirements

4.4   Documentation certifying system performance is issued to a 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.

Installing or modifying cabling must include at least two of the following:

- performance optical fibre cables

Unit Mapping Information

This unit replaces and is equivalent to UEENEEF105A Install and modify optical fibre performance data communication cabling.

Links

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