



Australian Government

Assessment Requirements for ICTCBL316 Install ribbon fibre cable in the FTTX distribution network

Release: 2

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Modification History

Release	Comments
Release 2	This version released with ICT Information and Communications Technology Training Package Version 5.0.
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- prepare cable for mid-span splicing – strip and coil
- prepare cable for butt end splicing – strip and coil
- install ribbon fibre cable into:
 - one heat shrink seal enclosure
 - one mechanical seal enclosure
 - one high density ribbon fibre termination drawer
- splice ribbon fibre according to specifications
- observe all network owner requirements and product practices to ensure optimal performance of cable systems
- adapt techniques to a range of technical and environmental conditions.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- applicable network owner standards, specifications and procedures for cable installation
- cable installation requirements, including:
 - causes of signal strength loss in optical fibre

- colour coding and numerical coding of fibres
- application of relevant safe operation of laser instruments
- installation equipment
- industry and organisational policies and procedures when splicing optical fibre cable
- manufacturer requirements for safe operation of optical fibre equipment
- common hazards associated with the construction site
- work health and safety (WHS) and environmental control processes and responsibilities on worksites
- safe handling of optical fibres and related equipment including:
 - hazards relating to handling of optical fibre and laser light source in the workplace
 - injuries:
 - damage to retina from lasers
 - damage to lungs from inhalation of fibre offcuts and particles
 - needle stick injury from fibres and offcuts
 - laser warning signs and labels relating to optical fibre components and equipment
 - safety requirements when handling and working with:
 - active equipment
 - laser light sources
 - optical fibre connectors
 - optical fibres
 - patch cords
- major feature and use of ribbon fibre, including:
 - bend ratios for ribbon fibre
 - procedures for handling and placing ribbon fibre in enclosures
 - procedures for physical handling of ribbon fibre cables
 - structure of ribbon fibre cables
 - splicing techniques for ribbon fibre
 - types and functions of ribbon fibre enclosures
- risks associated with confined spaces and determine the appropriate responses.

Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- optic fibre cabling and equipment
- a range of cabinet types and other housings requiring cable-handling techniques
- personal protective equipment
- first aid and fire safety equipment
- ribbon fibre cleaners, stripper and splicer
- joint pressure testing equipment.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guides are available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>