



Australian Government

**Assessment Requirements for ICTCBL322
Install, test and terminate optical fibre
cable on customer premises**

Release: 2

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Modification History

Release	Comments
Release 2	This version released with ICT Information and Communications Technology Training Package Version 6.0. Release 2 created for editorial corrections.
Release 1	This version released with ICT Information and Communications Technology Training Package Version 5.0.

Performance Evidence

The candidate must demonstrate the ability to perform the tasks outlined in the elements, performance criteria, and foundation skills, and to:

- install, terminate and test optical fibre cable, applying safety precautions when working with laser-based systems
- prepare workstation to provide for fibre preparation, cleaving, fusion splicing, enclosure fit out, cleaning pads and tools, sharps and waste disposal
- ensure workstation is located in a dust free environment with adequate ventilation, lighting and power
- install and test single mode and multimode cable
- perform direct field termination
- provide customer report documenting installation and test results
- comply with all related work health and safety (WHS) and environmental requirements and work practices
- install a mechanical splice connector and fusion splice a pigtail to cable fibre
- complete relevant documentation to manufacturer and design requirements.

Note: Evidence must be provided at least once when a specific volume or frequency is not stated.

Knowledge Evidence

The candidate must demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria, and foundation skills, which includes knowledge about:

- legislation, codes and standards for optical fibre
- specific WHS requirements and enterprise procedures relating to the activity and site conditions
- various types of optical fibre cable and associated connectors, enclosures and required equipment
- features and operating requirements of optical fibre cable test equipment
- information required to operate equipment according to a test specification
- manufacturer requirements for safe operation of optical fibre equipment
- safety precautions when working with laser-based systems
- hazards associated with working with optical cable including:
 - bare fibres
 - hazardous laser light
- test methods and performance requirements
- issues relating to environmental work practices and the disposal of waste
- techniques for types of termination, including:
 - direct termination
 - fusion splicing.

Assessment Conditions

Skills must be assessed in a workplace or simulated environment where conditions are typical of those in a telecommunications work environment or workplace.

Access is required to:

- site/s where installation and termination of optical fibre cable can be conducted
- special purpose tools, equipment and materials currently used in industry such as optical fibre testing equipment
- relevant regulatory and equipment documentation that impacts on optical fibre cable installation activities.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. Refer also to the *Requirements for assessors* in the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide.

Note: All customer cabling work in the telecommunications, fire, security and data industries must be performed by a registered cabler. All cablers are required to register with an Australian Communications and Media (ACMA) accredited registrar.

Links

Companion Volume Implementation Guides are available from VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>