



Australian Government

Assessment Requirements for ICTBWN307 Use optical measuring instruments

Release: 1

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Modification History

Release	Comments
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:

- comply with all job requirements and work health and safety (WHS) regulations, standards and work practices
- confirm calibration within appropriate dates of instruments
- operate the following equipment:
 - hand-held optical power meter
 - hand-held optical source
 - handheld optical fibre identifier (OFI-FTTx)
 - active optical network termination (ONT) detector
 - optical loss test set (OLTS)
 - passive optical network (PON) meter
- perform the following optical measurements:
 - detect the presence of an active ONT
 - determine absolute optical power (in dBm)
 - determine insertion loss (in dB)
 - determine relative optical power level (in dB).

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:

- site-specific safety requirements and enterprise WHS processes and procedures
- instruments used in measuring optical power levels including:

- hand-held optical power meter
- hand-held optical source
- handheld OFI-FTTx
- active ONT detector
- OLTS
- PON meter
- types of measurements and their respective interpretation for optical wavelengths
- consequences of mating contaminated optical connectors
- data recording using unit decibels (dBm)
- variations between optical connector adaptor types
- optical spectrum limits and allocations
- safe handling procedures with optical fibres.

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 measuring instruments can be used
- plant, tools and equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on work activities.

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>