



Australian Government

Assessment Requirements for ICTBWN308 Work safely on live optical fibre installations

Release: 1

Assessment Requirements for ICTBWN308 Work safely on live optical fibre installations

Modification History

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

Performance Evidence

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

- comply with all job requirements and work health and safety (WHS) regulations, standards and work practices, and environmental requirements
- use optical power test equipment
- evaluate test results
- safely connect input and output optical fibres to the splitter
- conduct live tests measuring optical signals at three wavelength division multiplexing (WDM) wavelengths on optical devices
- conduct acceptance tests for commissioning that cover:
 - delay
 - dispersion
 - optical attenuation and loss measurements
 - optical power levels
 - phase
- complete connection recording.

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, regulations, codes and standards for compliance that impact on work activities
- relevant organisational policies and procedures
- personal safety issues
- propagation of light in optical communication systems

- role of transmitters and receivers in optical communication systems
- critical aspects of site engineering
- specific WHS risks and controls relating to the handling of optical fibre and the use of laser light sources
- WDM applications.

Assessment Conditions

This unit of competency falls into the definition of high risk work and should be delivered and assessed in accordance with the national standard.

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:

- a WDM system and relevant optical splitter
- tools, equipment and personal protective 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. Refer also to the *Requirements for assessors* of high risk units in the ICT Information and Communications Technology Training Package Companion Volume Implementation Guide.

Links

Companion Volume Implementation Guides are available from VETNet -

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