



**Australian Government**

**Assessment Requirements for ICTOPN403  
Prepare activity plans and specifications for  
a fibre to the x installation**

**Release: 1**

# Assessment Requirements for ICTOPN403 Prepare activity plans and specifications for a fibre to the x installation

## Modification History

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

## Performance Evidence

Evidence of ability to:

- determine the scope of the installation
- visually inspect proposed cable route
- prepare installation activities for fibre to x (FTTx) provisioning
- prepare and document FTTx designs and specifications and submit for approvals
- comply with all related work health and safety (WHS) requirements and work practices.

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

## Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- outline properties of passive optical devices, including splitters and couplers
- identify FTTx installation equipment, including tools and safety equipment
- explain FTTx specifications
- outline legislative privacy, safety and environmental requirements including:
  - WHS requirements relating to handling of optical fibre and using laser optical sources
  - other personal safety issues
  - plant and equipment safety to be used in installation plans
  - discussion of manufacturer's requirements for safe operation of equipment
- summarise operation of optical transmitters and receivers
- identify organisational policy and procedures relevant to this work
- discuss propagation of light in optical communication systems
- summarise the role of optical transmitters and receivers in optical communication systems
- explain the concept of wavelength division multiplexing (WDM)

- discuss the importance of a knowledge of site engineering
- describe typical issues and challenges in preparing an activity plan for a site
- demonstrate a knowledge of the workplace and industry environment and their relationship to this work.

## Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the Telecommunications \-- Optical Networks field of work and include access to:

- vendor product information and installation guides
- relevant regulatory and equipment documentation impacting installation 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 found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>