

PLI-16-450

nbn™ TELECOMMUNICATIONS

TECHNICIAN FIBRE

nbn™ COURSES

PERPETUAL LEARNING offers a comprehensive range of nbn™ courses to equip you with the necessary skills and knowledge required to work on the nbn™ network

Perpetual Learning
is a Nationally
Approved Training
Provider of Telstra™
& nbn™

Contact us today
for full details



Attendees will be exposed to the FTTN and FTTP lead-in and NTD activation, installation and commissioning processes. Participants will be provided with all necessary information to install in accordance with industry standards - lead-in cabling, PCD, in-home cabling and the nbn's™ NTD & PSU.

On completion of all installation processes, attendees will learn the commissioning and activation sequences of the NTD and be provided with alarm identification and elimination procedures should service activation fail. NTD commissioning processes will also cover the required interaction and ticketing process requirements within the nbn™.



BOOK ONLINE

Information is subject to change
For the most current information and training schedule, please visit : www.perpetual.edu.au/book



ACCREDITATIONS

Perpetual Learning Institute is a nationally Registered Training Organisation (RTO code: 40809)

Perpetual Learning Institute is also a Nationally Approved Training Provider (ATP) of nbn™ & Telstra™



APPROVED

✉ INFO@PERPETUAL.EDU.AU

🌐 WWW.PERPETUAL.EDU.AU

📍 20 JOSEPH STREET, BLACKBURN NORTH VIC 3130

☎ 1800 256 838

COURSE OUTLINE



Overview Of nbn™ Architectures

- Overview of FTTP – Fibre to the Premise
- Overview of FTTB – Fibre to the Basement
- Overview of FTTN – Fibre to the Node
- Components needed in FTTx architectures
- Service delivery overview for FTTx networks
- Detailed overview of nbn's™ optical architectures:
 - Transit Fibre Network (TFN)
 - Distribution Fibre Network (DFN)
 - Local Fibre Network (LFN)
 - Aerial and underground lead-in cables and installation practices

Introduction to Fibre Optics

- Basics of fibre optics
- Optical fibre cable construction naming and colour codes
- Light propagation principles
- Laser transmission system theory
- Optical connects and cleaning principles
- Laser safety & OHS
- Operating visual fault locators

nbn™ Optical Network Construction Practices

- Detailed overview of FDH & Multiports (FTTP nbn™ specific)
- Detailed overview of nbn™ lead-in practices and methods (aerial and below ground) including lead-in conduit requirements
- Detailed overview and installation standards of in-premises components:
 - PCD (Premises Connection Device)
 - PSU (Power Supply Unit)
 - NTD (Network Terminal Device)
 - FWO (Fibre Optic Wall Outlet)
 - SDS cabling splicing
 - Prepare and splice SC/APL optical connections to SDS cables

nbn™ Service Activation Practices (NTD)

- NTD configuration and activation processes (nbn™ specific including ticket of work requirements)
- Measuring and recording the optical levels at the NTD
- NTD troubleshooting affecting service quality
- PSU alarm overview and rectification processes
- NTD alarm overview and rectification processes
- Troubleshooting optical power level faults – identification/ resolution/ escalation
- Validating end user service performance
- Wireless configuration and performance validation
- Internet & IP configuration to achieve customer interfacing validation

Practical Exercise

- Configure NTD and PSU with alarm notification
- Configure Wireless IP network for internet activation
- Terminate optical lead-in with mechanical splice connector

INDUSTRY PROBLEM

- With the deployment of the nbn™, Australia now needs additional skilled workers to construct the different network architectures.
- New network architectures and technologies require the development of new skills and knowledge to ensure success.



PERPETUAL LEARNING SOLUTION

- Working as an nbn™ Approved Training Provider, Perpetual Learning has enhanced our traditional courses to align directly to the skills needed for the nbn™ rollout.
- The development of carefully constructed skill based programs is where we excel – the art of training.
- Unlike other training organisations which focus primarily on technology, Perpetual Learning is structured toward Field Operations staff. Technology theory is combined with large quantities of practical exercises to reinforce the learning process.
- Perpetual Learning is the market leader with regards to hands on practical training that is supported by our real world learning simulators – “We bring the field environment to you”.



COURSE INFORMATION

Course Locations:

Melbourne, Adelaide,
Sydney, Hobart,
Canberra,
Cairns,
Brisbane,
Darwin and Perth



Location and timing will be advised at enrolment

Class Size: 10 - 12 students

Learners are required to complete a portfolio of evidence to achieve certification of Units of Competency listed below.

Included:

All materials used for practical exercises, technical manuals for each attendee, test equipment, emulation environment.

1 week phone support.

WORK ON THE nbn™

There are specific technical competencies that must be attained prior to commencing any type of work on the nbn™.

The following table shows the relevant Units of Competency that will be achieved on successful completion.

Once complete the student can formally gain accreditation on nbn's™ workforce compliance platform enAble™ (<https://enable.nbnco.com.au/>)



Units of Competency provided by PLI-16-450

Unit Code	Unit Name
ICTCBL302	Install and terminate optical fibre cable on customer premises
ICTTEN310	Remove and replace electronic circuit boards in carrier equipment
ICTTEN311	Inspect, clean and handle optical fibre cable and connectors
ICTTEN409	Commission an electronic system
ICTTEN416	Install, configure and test an internet protocol network