

PLI-17-850

nbn™ FIBRE TESTER

nbn™ COURSES

PERPETUAL LEARNING INSTITUTE 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
INSTITUTE is
a Nationally
Approved Training
Provider of
Telstra™ & nbn™

Contact us today
for full details



This course provides attendees with the accreditation, competencies and skills to confidently test and fault find nbn's™ Fibre Optic network across the three different architectures: TFN, DFN and LFN / MTLFN.

This course is designed for individuals with minimal experience and ensures that learning outcomes can be applied immediately to field activities using our advanced real-world and hands-on learning environments.

On completion, learners will have the confidence to test and commission the nbn™ Optical network to the published standards using modern equipment and techniques.



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 Pty. Ltd. is a nationally Registered Training Organisation (RTO code: 40809)

Perpetual Learning Institute Pty. Ltd 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 associated with FTTN architectures
- Service delivery overview for FTTN networks
- Working safely within the telecommunication environment

Overview of Optical Fibre Technology

- Optical fibre safety practices
- Basics of fibre optics - system components and measurements
- Light propagation principles
- Laser transmission system theory
- Fibre attenuation and its causes
- Fibre optic connectors and cleaning
- Evaluation of optical connector quality using video inspection probes

Acquiring a Suitable and Accurate OTDR Trace

- Introduction to OTDR's and trace fundamentals
- Index of refraction
- Pulse width selection
- OTDR trace acquisition time
- Testing wavelength selection
- Selecting the most suitable range and resolution setting
- Deadzone effects on an OTDR trace
- Practical exercises and assessment of each of the items discussed

Evaluating Overall Link Quality

- Understanding network testing thresholds
- Calculating loss/attenuation budgets
- File naming conventions and trace file formats/structure
- Measuring optical insertion loss
- Using fibre optic testing tools including - VFL, traffic identifier etc
- Creating nbn™ specific reporting workbooks for the TFN, DFN and LFN / MTLFN

Practical Exercise

- Using the field emulation simulator to successfully locate optical fault conditions
- Using supplied trace files to complete three nbn™ network workbooks - TFN, DFN, LFN / MTLFN

Course Assessment

- Theoretical assessment
- Practical assessment

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 INSTITUTE 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 INSTITUTE is structured toward Field Operations staff. Technology theory is combined with large quantities of practical exercises to reinforce the learning process.
- PERPETUAL LEARNING INSTITUTE 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-17-850	
Unit Code	Unit Name
ICTBWN304	Work safely with live fibre to test and commission a fibre to the x installation
ICTBWN305	Use Optical and Radio frequency measuring instruments
ICTWHS204	Follow health & safety and environment policy & procedure