

PLI-16-430

nbn™ TELECOMMUNICATIONS

LINESWORKER

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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 construct the copper network attributes for nbn's™ FTTN architectures.

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 build common network attributes including connecting the nodes to the Telstra™ Copper network under all scenarios including the variety of node types and pillar integration techniques.



BOOK ONLINE

Information is subject to change
For the most current information and training schedule, please visit : www.perpetuallearning.com.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

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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 in the telecommunication environment

Introduction to Copper Cabling

- Copper cable architecture and transmission theory
- Copper cable types, gauges and insulation types
- Detailed overview of Telstra's™ copper CAN Architecture (Customer Access Network)
- Overview of Telstra's™ cable records systems
- Overview of VDSL technologies nbn™ copper network construction practices

Copper Network Detailed Overview

- Overview of telecommunications pit & pipe infrastructure
- Cable hauling techniques
- Copper network tooling and equipment
- Detailed overview of copper joint enclosure standards and practices (nbn™ focused)
- Detailed overview of copper cabling stripping and joint installation

Copper CCU Pillars

- Detailed overview of CCU 900 & 1800 pillar types and technical guidelines
- Overview of retrofit pillar deployments and technical guidelines
- Pillar jumpering standards and methodologies
- Pillar extensions – CCU 900 to 1800

Overview of nbn™ Nodes

- Overview of Alcatel's nbn™ node
- Overview of Commscope nbn™ node
- Overview of DPU's
- CCF FTTN node jumpering (nbn™ standards)

Cable Termination Methods – Detail (nbn™ focussed)

Detailed overview of copper cable termination standards and practices (nbn™ focussed)

- Quante
- R&M (Madisson)
- Krone
- MDF/IDF
- CCF FTTN Node Jumpering (nbn™ standards)
- Validating cable termination quality

Practical Exercise

- Build Quante pair termination units in CCU pillar
- Installation and termination of tie cables in nodes
- Service jumpering for node cabinet and pillar
- Installation of overprotection modules (OVP)
- CCU pillar extensions (900 to 1800)

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-16-430

Unit Code	Unit Name
ICTCBL211	Install an above ground equipment enclosure
ICTPMG201	Prepare site for support installation
ICTCBL213	Construct underground telecommunications infrastructure
ICTCBL207	Haul underground cable
ICTCBL320	Jumper metallic conductor cables in the access network