

PLI-11-180A

ADVANCED OPTICAL

COMMISSIONING

& REPORTING

# OPTICAL



PERPETUAL LEARNING INSTITUTE provides a comprehensive syllabus that addresses critical practices pertaining to Optical technologies within the Telecommunications optical access networks

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

Contact us today  
for full details



Designed for all skill levels, though an understanding of OTDR principles is highly recommended. This course is designed to provide attendees with the required skills to confidently provide an accurate OTDR analysis report with repeatable results. This 2 day course focuses on an understanding of OTDR trace elements, trace analysis, report generation and automation.

With extensive hands on exercises, this course will develop the practical skills required to efficiently generate an optical fibre workbook using reporting automation.



## BOOK ONLINE

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

## COURSE OUTLINE



### PLI-11-180-A

#### Advanced Optical Trace Interpretation

- Bi-directional result variance
- Introduction to networks emulation software
- Trace management in networks software
- Loss nodes (splice loss, 2 point, 2 point attenuation corrected, dB/km)
- Practical exercises and assessment for each of the items discussed

### PLI-11-180-B

#### Advanced OTDR Trace Analysis

- Event identifiers, editing events and manipulation
- Horizontal and vertical offsets
- Manual vs automatic event measurements
- Creating OTDR splice loss templates
- Batch processing report automation
- Bi-directional automated trace analysis
- Generating accurate reports using automation
- Practical exercises and assessment for each of the items discussed

### PLI-11-180-C

#### Advanced Analysis Using Networks

- Overview of workbook reporting methodology
- Workbook OTDR trace naming identifiers for automatic import
- How to perform an automatic import splice data from a networks .rpt file
- Perform workbook analysis identifying high point losses and suspicious data in splice sheet
- Creating line diagrams from OTDR traces
- Practical exercises and assessment for each of the items discussed

### PLI-11-180-E

#### Course Assessment

- Theoretical assessment
- Practical assessment
  - Complete and accurate template batch process, ExportNetworks .rpt file and import into the optical fibre workbook - nbn™ Telstra™ formats
  - Complete entire optical workbook, including splice loss sheet and line diagram. Provide fault analysis

## 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

Duration: 1 day

### 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/>)