

PLI-18-895

INTRODUCTION TO OPTICAL FIBRE INSPECTING & TESTING

Designed for all skill levels, this course provides all the information required to confidently operate and assess the quality of an optical fibre transmission link.

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™

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This course introduces attendees to the technology and capability of optical fibre networks and the associated architectures. This course covers installation concepts, common components and quality assessment strategies used to assess link performance.



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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INTRODUCTION TO OPTICAL FIBRE INSPECTING & TESTING

COURSE OUTLINE

PLI-18-895-A

Optical Theory as it Relates to Large

Network Deployments

- Optical Fibre Safety Practices
- Understanding Telecommunications Network Architecture including NBN
- Basics of Fibre Optics - System Components and Measurements
- Single Mode and Multi Mmode Cable Principles
- Light Propagation Principles
- Laser Transmission System Theory
- Fibre Attenuation and its Causes

PLI-18-895-B

Overview of Fibre Optic Cables

and Connector Technology

- Overview of Single Mode and Multi Mode Cable Construction
- Overview of Fibre Optic Connector Technology
- Cable Terminations and Joint Enclosure Technology
- Calculating Loss/Attenuation Budgets
- Photo detector
- Equipment types
- Lasers
- Spectral Power
- Health Hazards & Safe Laser Practices
- Optical Fibre Care
- Safe Working Practices

PLI-18-895-C

Assessing the quality of Fibre optic circuits

- Optical Connector Cleaning
- Assessing Connector Quality using a VIP
- When to Use a VFL
- Overview of Splicing Techniques and Equipment Used
- The value of Live Traffic Identifiers
- Assessing Link Quality using an Optical Light Source and Power Meter
- Assessing Link Quality using an OTDR (Optical Time Domain Reflectometer)
- Practical Exercises and Assessment of each of the Items Discussed



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

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.

PERPETUAL LEARNING SOLUTION



- Working as an Approved Training Provider, PERPETUAL LEARNING INSTITUTE has enhanced courses that align directly to the skills needed for industry professionals.
- The creation and delivery of carefully constructed skill based development programs is where we excel – the art of training.
- Unlike other training organisations which focus primarily on technology, PERPETUAL LEARNING INSTITUTE is structured toward practical hands-on knowledge development. 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”.

