Fibre Optic Essentials for Electricians & Installers

COURSE DESCRIPTION:

This course will impart with lectures and practical exercises the knowledge and skills required to install the latest fibre optic and cabling in LAN & WAN environments. It covers safety, handling, installation, jointing, terminating and testing of Optical backbones and horizontal runs, helping to avoid costly installation errors caused when cables are incorrectly handled.

WHO SHOULD ATTEND:

Electricians, Technicians, installation and maintenance engineers and anyone that has to install, commission or maintain Fibre Optic links & connected equipment.

SOME COURSE BENEFITS:

- Be able to correctly install, terminate and test fibre cables.
- Be able to correctly install, pigtail splice and test OS2 & OM3 cables.
- Understand and comply with fibre safety standards
- Reduce maintenance calls due to incorrect installation & termination

COURSE OBJECTIVES:

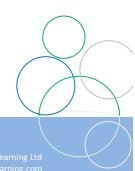
- To clarify fibre optics technology, components and operation
- To explain singlemode and multimode implementations, cables, connectors, safety, handling & cleanliness
- Understand the applications for the different links & how to test them

FORMAT:

1-day, interactive classroom based, with quizzes and hands on exercises.

Maximum attendees 12 per course





CONTENT:

BLUE = Practical Exercise

Morning

- The principles of light (simplifying the language)
- Fibre optic system basics
- Fibre safety considerations
- Single mode & multi mode fibres
- Dispersion and loss
- Fibre construction
- Fibre connectors
- Connector Colour Codes
- Fibre Cables
- Light Sources LED's & Lasers
- Fibre Installation Techniques
- Fibre Termination (splicing practical)

Afternoon

- Connector care and cleaning
- Fibre Testing theory
- Continuity Testing
- Visible Fault Locators
- Insertion Loss Testing using Light Source & Power Meters
- OTDR Overview
- OTDR Results interpretation

Assessment (Optional for in-house courses)

- Multiple choice written test
- Instructor led interactive quizzes
- "Show what you know" group presentations

Delivered in association with





