Fibre Optic Essentials for Electricians

COURSE DESCRIPTION:

This course will impart with lectures and practical exercises the knowledge and skills required to install the latest fibre optic 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 & cabling installers who want to expand their business portfolio to include the installation, commissioning and maintenance of fibre optic networks, links & connected equipment.

SOME COURSE BENEFITS:

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

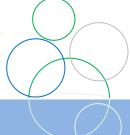
COURSE OBJECTIVES:

- To understand fibre optic technology, terminology, components and operation
- To explain fibre optic circuits; cables, connectors, safety, handling & cleanliness
- Understand the applications for the different link types & how to test them

FORMAT:

1-day, interactive classroom based, with a written test and hands on exercises.

Maximum attendees 12 per course





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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
- Live Fibre Identifier
- Visible Fault Locator
- Insertion Loss Testing using Light Source & Power Meters
- OTDR Overview
- OTDR Results interpretation

Assessment (Optional for in-house courses)

- Instructor led interactive quizzes
- Multiple choice written test
- Practical Assessment

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