Fibre Optic Essentials for Electricians

COURSE DESCRIPTION

This course combines lectures and practical exercises to deliver 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 organisations avoid costly installation errors caused when cables are incorrectly handled.

WHO SHOULD ATTEND?

Electricians & cabling installers seeking to expand their business portfolio to include the installation, commissioning and maintenance of fibre optic networks, links & connected equipment.

SOME COURSE BENEFITS

- Correctly install, terminate and test fibre cables
- 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

By the end of this course participants will be able to:

- Explain fibre optic technology, terminology, components and operation
- 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.

+61 3 9381 7888
INFO@COVERTEL.COM.AU
114 BAKEHOUSE ROAD, KENSINGTON VIC 3031
AUSTRALIA
PO BOX 553, NORTH MELBOURNE, VIC 3051
AUSTRALIA
WWW.COVERTEL.COM.AU

CONTENT

BLUE = Practical Exercise

Morning

- The principles of light
- 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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