

OTDR Fundamentals & Operation

COURSE DESCRIPTION:

This hands-on course gives a solid understanding of an Optical Time Domain Reflectometer. It will give technicians the essential knowledge to be able to configure, operate and interpret results using an OTDR, along with equipment specific info on saving configurations and results. Note: You can bring your own OTDR to this training, or use one of ours.

WHO SHOULD ATTEND:

Technicians, installation and maintenance engineers and anyone wanting to get the most from their OTDR.

SOME COURSE BENEFITS:

- Be competent in performing tests and saving results
- Ensure compliance with design
- Reduce maintenance calls due to poor installation
- Locate faults faster

COURSE OBJECTIVES:


- Understand the principles essential to operating an OTDR
- Understand the theory & process for fibre testing
- Understand the effect of OTDR configuration parameters
- Be able to identify & locate events on a fibre using an OTDR
- Be able to create and export reports from your OTDR

FORMAT:

1-day, interactive classroom based, with quizzes and hands on exercises.
Maximum attendees 10 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:


Morning

- The principles of light (related to OTDR's)
 - light velocity
 - reflection
 - refraction
 - dispersion
- Singlemode & Multimode considerations
- Fibre Testing theory
 - Dead Zones
 - Launch & receive leads
 - Insertion Loss
 - Fusion Splices
 - Mechanical Splices
 - Connectors
 - Ghosts & Gainers
- OTDR Parameters
 - Index of refraction
 - Helix factor
 - Range
 - Pulse Width
 - Wavelength
 - Averaging or duration
- OTDR Navigation
- OTDR setup and operation
- Connecting to a Fibre
- Obtaining a "good" trace
- Basic OTDR results analysis and troubleshooting

Afternoon

- Hands on fibre testing and fault location
- Advanced OTDR setup and operation
- Advanced OTDR results analysis and troubleshooting
- Test result storage and handover documentation

Assessment (Optional for in-house courses)

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- Multiple choice written test
- Instructor led interactive quizzes
- "Show what you know" group presentations
- The abbreviation game (explain TLA's)

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