

CMT-05-001

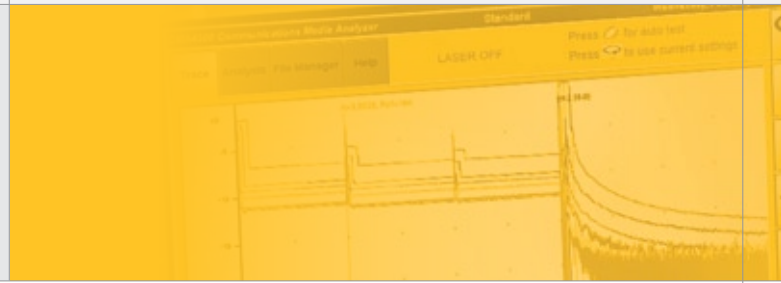
FIBRE OPTIC OTDR, COMMISSIONING & REPORTING TRAINING COURSE

3 DAYS DURATION - DESIGNED FOR ALL SKILL LEVELS

WWW.CELEMETRIX.COM.AU
CALL 1800 256 838

Telstra Certified

FIBRE OPTIC OTDR, COMMISSIONING & REPORTING TRAINING COURSE



COURSE OUTLINE

CMT-05-001-A

Optical Theory as it Relates to Measurement Techniques

1. Understanding Telecommunications network architecture
2. Basics of Fibre Optics – Units of measurement
3. Single Mode and Multimode cable principles
4. Light Propagation principles
5. Laser Transmission System Theory
6. Optical Connectors
7. Laser Safety and OH&S.

CMT-05-001-B

Acquiring a Suitable and Accurate OTDR Trace

1. Index of Refraction
2. Pulse Width Selection
3. Deadzone effects on an OTDR trace
4. Selecting the most suitable range and resolution setting
5. OTDR Trace Acquisition time
6. Wavelength test selection
7. Practical exercises and assessment of each of the items discussed.

CMT-05-001-C

Evaluating OTDR Trace Elements

1. OTDR Trace Basics
2. OTDR Trace elements
3. Measuring OTDR trace features
4. OTDR Fault Conditions – Trace examples provided
5. Effects of Incorrect OTDR parameter setup
6. Ghosting & Gainers
7. Techniques for accurate fault locating
8. Practical exercises and assessment of each of the items discussed.

CMT-05-001-D

Evaluating Overall Link Quality

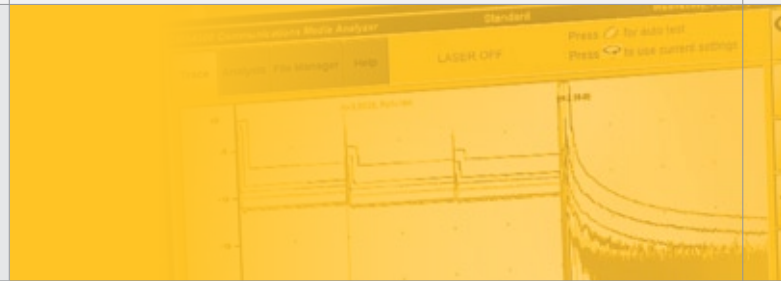
1. Understanding network testing thresholds
2. Calculating loss/attenuation budgets
3. File naming conventions and trace file formats/structure
4. Measuring optical insertion loss
5. Evaluate an optical connector using a microscope
6. Determine the effectiveness of other fiber optic testing tools including – VFL, BFA, Traffic Identifier etc
7. Creating a professional and accurate optic link performance report using the Telstra Workbook and how this relates to Multiman
8. Introduction to “Networks” PC Emulation Software
9. Practical exercises and assessment of each of the items discussed.

CMT-05-001-E

Course Assessment

1. Theory - Complete the written assessment covering all items discussed
2. Practical assessment – Complete an optical report using supplied traces.

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COURSE INFORMATION

Course locations:

Melbourne, Adelaide, Sydney, Hobart, Canberra, Cairns, Brisbane, Darwin & Perth.

Course times: 8.30am to 4.30pm.

Duration: Three days.

Training is available Australia-wide.

Please contact Celemetrix for details.

Included: Instructor, data projector, test equipment (tri-band OTDR), training manual per attendee, 1 week phone support.

INDUSTRY PROBLEM

- The telecommunication industry has seen a decline of the transfer of skills from experienced technical personnel to new personnel.
- Knowledge transfer to complete projects to the required quality/time standards has become increasingly scarce.

CELEMETRIX SOLUTION

- Training programs are designed to protect against poor quality network builds, which result in costly rework and service interruptions.
- Emphasis on the importance of maintaining standardised installation and commissioning practices.
- Skill in the transference of knowledge is what we believe to be the "art of training."
- Unlike other training organisations which focus primarily on technology - Celemetrix Training Services are structured toward Field Operations staff. Technology theory is combined with practical elements to reinforce the learning process.
- Specifically designed training manuals, enhanced practical exercises and technical phone support ensure your investment delivers increased levels of productivity and confidence.
- All our training courses can be customised to meet your individual requirements.

All our trainers are qualified with Cert IV Assessment and Workplace Training from Corporate Training Australia.

COURSE OVERVIEW

Designed for all skill levels, this course provides all the information required to confidently operate and acquire OTDR traces for quality measurement purposes.

Minimum of 10 people per course.

Training is available throughout Australia.

FURTHER INFORMATION

Call or email Celemetrix today, our courses result in the highest knowledge transfer and are Telstra Certified.

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