



**CMT-07-095**

**FOTP TRANSMISSION  
OPERATIONS & MAINTENANCE  
TRAINING COURSE**

**1 DAY DURATION - DESIGNED FOR ALL SKILL LEVELS.**

**WWW.CELEMETRIX.COM.AU  
CALL 1800 256 838**



# FTTP TRANSMISSION OPERATIONS & MAINTENANCE TRAINING COURSE

## COURSE OUTLINE

### CMT-07-095-A

#### Introduction to Fibre Optics

1. Understanding Telecommunications network architecture
2. Basics of Fibre Optics – Units of measurement
3. Optical Connectors and pigtails (FTTP Specific)
4. Laser Safety and OH&S
5. Fibre optic connector cleaning principles
6. Practical exercises to reinforce theory elements.

### CMT-07-095-B

#### Basics of FTTP Architecture

1. What is FTTx
2. Benefits of FTTP networks
3. FTTP network architecture overview
4. What is PON
5. Overview of GPON
6. Understanding FTTx transport wavelengths
7. Basics of FTTP service delivery capability.

### CMT-07-095-C

#### FTTP Architecture in Detail

1. Detailed overview of FTTP architecture
2. Detailed overview of POLT (low & high density)
3. Detailed overview of VOLT
4. Detailed overview of WDM
5. Introductory overview of MDU installation
6. Introductory overview of FDH (internal & external)
7. Introductory overview of PSU for internal & external ONTs
8. Introductory overview of external ONT-0
9. Introductory overview of internal ONT-I
10. FTTP Service Delivery for POTS, VoIP, Data (BigPond), Video (Free and PayTV)
11. Practical Exercise to reinforce above elements.

### CMT-07-095-D

#### FTTP Fault Methodology - Detailed

1. Active FTTP network testing overview
2. Basics of FTTP fault methodology
3. Optical loss threshold overview for FTTP
4. Measuring Optical Power on a live FTTP network
5. Practical – Measure optical power at the FDH, ONT & DLM using a PON Power Meter.

### CMT-07-095-E

#### National Fault Code Set for FTTP

1. Telstra national fault code overview
2. National alarm notification overview
3. FTTP national fault codes.

### CMT-07-095-F

#### Course Assessment

1. Theoretical Assessment
2. Practical Assessment.

# FTTP TRANSMISSION OPERATIONS & MAINTENANCE TRAINING COURSE

## COURSE INFORMATION

### Course Locations:

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

**Course Times:** 8.30am to 4.30pm.

**Duration:** One day.

Training is available Australia-wide.

Please contact Celemetrix for details.

**Included:** Active FTTP training network, all FTTP external and internal network hardware, instructor, data projector, all required test equipment and hardcopy course manual for each attendee.

## 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 understand, maintain and assess the quality of triple play services over an FTTP network.

Attendees will be introduced to all components of a FTTP architecture as well as build relevant components and test the performance of Voice, Video and data services as well as optical signal strength. Attendees will have the opportunity to work on a live FTTP network to explore all operational and maintenance disciplines needed to effectively and efficiently assess the quality of customer services.

**10 -15 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.

**CELEMETRIX AUSTRALIA PTY LTD  
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