

CMT-08-060

**FTTP –
Network Auditors
Training Course**

**2 DAYS DURATION - FOR PEOPLE WITH FTTP
NETWORK AUDITING RESPONSIBILITIES.**

“Telecommunications training that
provides knowledge plus experience.”



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the art of measurement

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COURSE OUTLINE

CMT-08-060-A

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 and BPON
6. Understanding FTTx transport wavelengths
7. Single Fibre working systems
8. Basics of FTTP service delivery capability.

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FTTP Architecture in Detail

1. Detailed overview of FTTP architecture (CAN & FTTP Network Integration)
2. Exchange Layout Overview
 - 2.1. Detailed overview of POLT
 - 2.2. Detailed overview of VOLT
 - 2.3. Detailed overview of WDM
 - 2.4. HDOFDF
 - 2.5. FTTP Hardware Integration
3. ODN FTTP Architecture
 - 3.1 Detailed overview of FDH
 - 3.2 Detailed overview of Optical Splitter
 - 3.3 Integration of FDH into CAN via MAX Enclosures
 - 3.4 Detailed overview of DLM
 - 3.5 Detailed overview of LM
 - 3.6 Detailed overview of Lead-in cable technology
 - 3.7 Pit & Pipe architecture
4. Overview of HONT Hardware
 - 4.1 Detailed overview of FTTP service delivery capabilities
 - 4.2 Detailed overview of HONT-B
 - 4.3 Detailed overview of HONT-C
 - 4.4 Detailed overview of HONT-O
 - 4.5 Detailed overview of PSU
5. Network design principles for FTTP
 - 5.1 Exchange
 - 5.2 ODN
 - 5.3 HONT

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FTTP Design and Hardware Selection Overview

1. FTTP exchange hardware deployment practices
 - 1.1 FTTP technology selection – RDN/SDN POP
 - 1.2 POLT Hardware configuration options (SDN/RDN)
 - 1.3 VOLT hardware selection options (Local or video headend)
 - 1.4 WDM housing
2. FDH Construction Details
 - 2.1 FDH Site preparation

- 2.2 FDH Fixing practices
- 2.3 Pit & pipe allocation
- 2.4 FDH FAP enclosures
3. Multiport Construction Details
 - 3.1 DLM construction overview
 - 3.2 LM to DLM integration
 - 3.3 Pit & pipe considerations for DLM and LM housings
 - 3.4 DLM & LM manhole fixings
 - 3.5 Lead-In pit & pipe construction requirements
 - 3.6 Lead-In hauling procedures
4. HONT Installation Practices
 - 4.1 HONT B/C & O installation considerations
 - 4.2 HONT B/C & O installation practices
 - 4.3 PSU installation practices
 - 4.4 Internal cabling requirements and capabilities
5. ODN Commissioning Procedures
 - 5.1 Optical link commissioning and reporting for Exchange to FDH
 - 5.2 Optical link commissioning and reporting for FDH to multiport
 - 5.3 HONT commissioning and reporting procedures.

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FTTP Deployment Audit

1. Design Pack Audit
 - 1.1 High level design pack
 - 1.2 BOM and resources planning audit (KPI Measures)
2. FTTP Architecture Audit
 - 2.1 FDH sitting complies to standard
 - 2.2 Pit & Pipe layout complies to standard
 - 2.3 Cable layout complies to standard
 - 2.4 Multiport layout complies to standard
3. Plan Audit
 - 3.1 Plan Types
 - 3.2 Plan Detailing
4. Exchange Construction Audit
 - 4.1 Inspection and workmanship audit of all integrated exchange equipment
5. ODN Construction Audit
 - 5.1 Fibre cable installation and hauling audit
 - 5.2 FAP construction audit
 - 5.3 FDH installation audit
 - 5.4 FDH Max joint audit
 - 5.5 Multiport installation audit
 - 5.6 Pit & pipe installation audit
6. HONT Installation Audit
 - 6.1 HONT installation audit
 - 6.2 Access pipe installation audit (Telco & Customer)
 - 6.3 Lead-In Cabling audit
 - 6.4 PSU installation audit
 - 6.5 PSU-HONT cabling audit.

COURSE INFORMATION

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

Course times: 8.30am to 4.30pm

Duration: Two Days

Training is available Australia-wide. Please contact Celemetrix for details.

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

COURSE OVERVIEW

Designed for people with FTTP network auditing responsibilities, this course provides attendees with the skills and knowledge needed to efficiently audit the quality of deployed FTTP networks. Combining elements of design and quality control we introduce attendees to the affect on service delivery if critical design and construction standards are not adhered to. Attendees will be introduced to quality control methodologies for all triple play services. 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 service delivery. The outcomes associated with this course are to equip attendees with the confidence needed to efficiently audit network design and construction quality to assure the long term stability of FTTP networks.

10 – 15 people per course.

Training is available throughout Australia.

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.

FURTHER INFORMATION

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