CELEMETRIX

CERTIFIED QUALITY MANAGEMENT SYSTEM
ISO9001

CMT-09-160

NBN & FTTP OVERVIEW TRAINING COURSE

1 DAY DURATION - DESIGNED FOR ALL SKILL LEVELS.

WWW.CELEMETRIX.COM.AU
CALL 1800 256 838

NBN & FTTP OVERVIEW TRAINING COURSE

COURSE OUTLINE

CMT-09-160-A

Introduction to fibre optics

1. Understanding telecommunications network architecture
2. Basics of fibre optics – units of measurement
3. Single-mode and multimode cable principles
4. Laser transmission system theory
5. Optical connectors and pigtails (FTTP specific)
6. Laser safety and OH&S
7. Basic FTTP tooling requirements – OTDR, VIP, VLF, LS, PM, cleaning kit and splicer.

CMT-09-160-B

Basics of FTTP architecture

1. What is FTTx?
2. FTTP network architecture overview
3. What is PON?
4. Overview of GPON & EPON
5. Understanding FTTx transport wavelengths
6. Components of a FTTP Network
7. Above ground and below ground deployment considerations
8. Basics of FTTP service delivery capability.

CMT-09-160-C

Service delivery capabilities of a FTTP network

1. ONT capabilities
2. POTS & VoIP capabilities
3. Data service delivery capabilities and considerations
4. Video service delivery capabilities – IPTV and RF video overlay.

CMT-09-160-D

Commissioning a FTTP network

1. Why optical loss budgets are important for service delivery
2. OTDR, light source and power meter testing
3. Activating an ONT (PON power meter)
4. Identifying optical cable faults that will effect service delivery.

CMT-09-160-E

Course Assessment

1. Theory - Complete the written assessment covering all items discussed.

NBN & FTTP OVERVIEW 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: Instructor, data projector, FTTP network training equipment, test equipment, 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

Suitable for all skill levels, this course is designed to provide attendees with a detailed overview of the NBN and associated FTTP technologies. Attendees will be introduced to various NBN related technologies including GPON & EPON and the required construction hardware for above and below ground installations. Attendees will learn about FTTP service delivery capabilities and the potential issues associated with this type of network architecture and will be introduced to typical commissioning processes and standards associated with validating the capabilities of a FTTP network.

12 - 20 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
SYDNEY - MELBOURNE

WWW.CELEMETRIX.COM.AU