

Telco Test Equipment Training

COURSE DESCRIPTION

The Telco Test Equipment Training course provides practical, hands-on training for technicians and engineers using telecommunications test equipment. This course is designed to improve understanding of test equipment operation, measurement techniques and result interpretation across a range of technologies.

Training can be tailored to specific equipment and applications, including fibre optic testing, Ethernet service testing, IP network testing and wireless measurements. Participants will gain confidence in correctly operating test equipment, performing industry-standard tests and interpreting results to verify network performance and service quality.

The course can be delivered either face-to-face or online and can be customised to suit specific technologies, equipment types and operational requirements.

WHO SHOULD ATTEND


Technicians, engineers and support staff who use telecommunications test equipment or require a better understanding of testing procedures, technologies and result interpretation.

PREREQUISITES


Participants should have a basic understanding of telecommunications or networking concepts. Experience working with test equipment is beneficial but not required.

SOME COURSE BENEFITS

- Improved confidence operating telecommunications test equipment
- Ability to correctly perform and interpret industry-standard tests
- Reduced errors in installation, testing and fault diagnosis
- Improved ability to verify service performance and SLA compliance
- Practical experience with a range of test equipment and technologies

+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 

COURSE OBJECTIVES

Participants will gain the knowledge and skills required to:

- Understand the technologies being tested across Layer 1–4 networks
- Operate telecommunications test equipment correctly and efficiently
- Perform standard tests for fibre, Ethernet, IP and wireless systems
- Interpret test results and determine pass/fail outcomes
- Generate accurate test reports for network validation

FORMAT

1 to 3-day interactive training delivered either in-person or online, including theory sessions, discussions and hands-on practical exercises.

Maximum attendees: 9–12 per course (depending on location).

CONTENT

Telecommunications Technologies Overview

Layer 1 – Physical Infrastructure

- Fibre optics (singlemode, multimode, GPON, O-LAN, WDM)
- Copper technologies (PSTN, xDSL, HFC coax)
- Wireless technologies (mobile, Wi-Fi, DAS)
- Optical Transport Networks (OTN)

Layer 2 – Data Link Technologies

- PDH and SDH
- Ethernet and Metro Ethernet

Layer 3 & 4 – Network & Transport

- IP networking fundamentals
- TCP and UDP protocols

+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



Testing Methodologies

- Ethernet service testing (UNI and EVC)
- VoIP and SIP testing
- Bit Error Rate Testing (BERT)
- Mobile signal verification
- Service validation and performance testing

Test Equipment Operation

- Copper testers
- Live fibre identifiers
- Visual fault locators (VFL)
- Fibre inspection probes
- Light source and power meters
- OTDR operation
- Fusion splicers
- BER testers
- Transport and service testing tools
- Spectrum analysers

Practical Training

- Hands-on operation of test equipment
- Performing real-world test scenarios
- Interpreting measurement results

Assessment

- Instructor-led interactive quizzes
- Multiple-choice written test
- Practical assessment exercises

+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

