

Tel: 0870 112 6403
www.cnet-training.com E-mail: info@cnet-training.com

2-day course

This 2-day programme covers the standard compliant design principles involving the theoretical and practical use of a variety of test equipment.

To enable engineers already familiar with copper cable installation to gain further design information and practical experience on a variety of certification testers and to improve their skills in diagnostics and fault rectification. Reference is also made to future proposed copper cabling system developments.

The course provides detailed requirements for standards-based design of copper cabling systems for Cat 5e and Cat 6 installation, EMC considerations and termination and testing requirements. Practical exercises demonstrate the correct use of the structured cabling test equipment available on the market today. Since the introduction of Category 6 cabling the requirements for advanced testing have never been greater. The practical elements also extend to demonstrate the tests that need to be carried out in the field.

Industry orientation

Introduction & objectives

- Introduction to the ranges of copper cabling systems & relevant EN, TIA
- ISO ratified industry standards
- Difference & requirements of both
- Channel & permanent link tests

Design of copper based systems

- Introduction to copper cabling design requirements using Cat 5E & Cat 6 including difference in required bend radii
- Use of consolidation points etc

Testing requirements

- A detailed section describing individual testing definitions & parameters of each of the 14 new field tests required for the Cat 6 standard as well as the existing tests required for Cat 5e systems

Industry testers

- Introduction to various industry standard copper based testers, their calibration, setup and comparisons
- How to download & update firmware from relevant web sites.

EMC

- Considerations required with reference to RFI & EMI, including potential causes and solutions as well as methods of survey

Troubleshooting

- How to ask the right questions & define testing parameters in both new & retro fit construction
- Advice on how to recognise common faults through physical & visual inspections

Documentation

- Requirements for documentation & emulation software
- Downloading of test results & use of software

70% Theory 30% Practical



Qualification

BTEC units towards:
BTEC Advanced Certificate in Telecommunications Installation & Test
BTEC Professional Certificate in LAN Design & Installation
BICSI CECS: 14 ITS & 14 RCDD
CNet certificate

Who should attend

Engineers with a good basic working knowledge of copper data installation

Related Training

Design & Advanced Testing of Fibre Systems
BICSI ITS Installer, Level 2
BICSI ITS Technician
LAN Design & Implementation
Datacommunications Cabling
Structured Cabling

Course objectives

Delegates are able to fully test copper systems to the required standards

Prerequisites

Knowledge of data cabling installation preferred

Course Location

Bury St Edmunds
Suffolk