



City & Guilds

Copper cabling in an internal environment 3667 (Unit 4)

- Description:** For those undergoing training or those employed as installation technicians in the telecommunications and media network also beneficial for the IT Managers giving an insight to problems that are caused by cable infrastructure.
- Venue:** Fibreplus Training Centre, Wiltshire
- Duration:** Five Days
- Dates:** This course is offered continuously throughout the year. Please refer to the online Calendar for the start date of the next convenient course for you.
- Price:** Please refer to current price list. **FIBREPLUS PRICE GUARANTEE.** We guarantee you will not be able to find this course at a lower advertised fee anywhere else in the UK, or we will provide your course at 5% less.

Introduction

Pros and Cons of Copper & Coax.

Design Criteria & Limitations

- Distance, Security, Bandwidth & Cost

Cable Type and Choices

- Category 5e, 6 & 7 or Class 5e, 6 & 7
- Copper Components & Active Equipment
- Coaxial, 1308, UTP, FTP, STP & Multipair

Safety and Permission issues

- PPE
- Working & Height
- BS 7671
- Asbestos
- Building Grade and Permissions
- Fire Stopping

European & International Standards

- ISO 11801
- EN 50173
- TIA/EIA 568-A

Installing Copper & Fibre Optic Structured Cabling

- Correct Termination Methods
- Digital & Analogue Telco Patch choices
- Correct cable laying procedures
- Cable support and Containment
- Segregation Limitations
- Earth bonding
- Labelling & Documentation

Balans

- RGB
- Telephone
- Coaxial

Termination Copper Cabling

- 568a or 568B
- Shielding Issues
- IDC type i.e. Krone, 110 or Block66
- Correct use of tooling for connectors

Testing Different Copper / Fibre Cabling

- Acceptance Testing
- Schematics
- Copper Test Reports
- Copper Tests i.e. Next, Crosstalk & ACR etc.
- Earth Impedance Check and Report

Understanding various types of testers

- Tone and Oscillators
- Wiremapper
- Certification Testers i.e. Fluke & Omni scanner etc.

Setting up copper test equipment

- Testing Standards
- NVP
- Shielded or UTP, Class or CAT, Channel or Fixed
- Copper Channel & Fixed / Permanent Link Tests

Fault Finding

- Split Pairs
- Disconnections
- Reversals
- Crossed Pairs

ASSESSMENT

- Written assessment
- Simulated installation exercise