

- Description:** For those undergoing training or those employed as installation technicians in the telecommunications and media network industry. Also beneficial for IT managers to give an insight to the problems that can arise when designing and installing a cable infrastructure. This course covers the integration of telecommunications (PBX's Analogue & Digital) within the structured cable system as well as design and cost consideration for internal and external installations.
- Venue:** Main Fibreplus Ltd Training Centre: Westbury Wiltshire.  
**Centres:** Westbury - Dunfermline - Peterborough - Lancaster - Surrey
- Duration:** 3 days.
- Dates:** Available most weeks throughout the year, refer to Calendar and call for booking availability.
- Price:** Please refer to current price list. **FIBREPLUS PRICE GUARANTEE.** Not to be beaten on a like for like basis.

### Course overview

#### Introduction:

- Common terms used
- Pros & Cons of copper. Fibre and wireless

#### Cable Type and Choice:

- Category or Class
- Copper Components & Equipment
- Coaxial, 1308, UTP, FTP, STP & Multi-pair
- Fibre i.e. Multi /Single Mode
- OM1, OM2, OM3 or OS1

#### Copper & Fibre installation:

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

#### Setting up copper test equipment:

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

#### Design Criteria & Limitations:

- Distance & Bandwidth
- Security & Cost

#### European & International Standards:

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

#### Testing Copper & Fibre Cabling:

- Acceptance Testing
- Schematics
- OTDR Traces
- Loss Test Results
- Copper Test Reports
- Copper Tests i.e. Next, Crosstalk & ACR etc.
- Earth Impedance Check and Report
- Fault Finding

#### Safety & Permission issues:

- Hazards & Regulations
- Building Grade & Permissions
- Fire stopping/moisture sealing

#### Copper Termination issues:

- 568A or 568B
- Shielding issues
- IDC type. Krone, 110 or Block 66
- Correct use of tooling for connectors

#### Tester overview:

- Tone & Oscillators
- Wiremapper
- Certification Testers .e.g. Fluke, Meggar, Omni scanner
- Fibre Optic test equipment:
  - Visual Light Source
  - Light Source & Power Meter
  - OTDR

### Exam and Assessment Method

- Written & practical assessment.



#### **Main Training Centre**

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