

**Description** This is a specialist certification covering the design, installation and testing of communications infrastructure, which includes both outside plant & premise networks.

**Venue** Melksham, Wiltshire

**Duration** 10 Days

## COURSE CONTENT

### Health & Safety

- ◆ Safe working
- ◆ Risk assessments
- ◆ Special precautions

### Copper Design & Performance

- ◆ Terminology
- ◆ Different topologies
- ◆ Standards considerations
- ◆ Issues to consider

### Copper & Fibre Network Installation, Commissioning & Testing

- ◆ Testing Systems i.e OTDR, ILM
- ◆ Structured cabling
- ◆ Fusion splicing
- ◆ Standards
- ◆ Power and loss budgets

### Ethernet Active Equipment Design & Installation

- ◆ Types of equipment
- ◆ Safety issues
- ◆ Area of use
- ◆ Benefits

### Fibre Optic Design & performance

- ◆ Benefits & terminology
- ◆ Standards & issues to consider
- ◆ Loss budgets

### Choosing Components

- ◆ Fibre specifications
- ◆ Cable & Connector types
- ◆ Splice on connectors
- ◆ Panels, closures and cabinets

### Passive & Active Network Design

- ◆ Legislation & regulations
- ◆ Project management
- ◆ Issues when costing
- ◆ Performance benefits & drawbacks
- ◆ Future cost & performance
- ◆ Terminology

### Exam and Assessment Method

- ◆ City & Guilds multiple choice exam
- ◆ Assessed practical exercises