

**COURSE NAME****LEVEL 2 CERTIFICATE IN COMMUNICATIONS CABLING 3666 - 04**
Copper Cabling in an Internal Environment

"Gain the knowledge and skills to become a skilled and qualified data communications installation engineer"

This is a five day intensive training course that focuses on the installation, termination and testing of structured cabling systems that includes Cat 5E and CAT 6. The course is biased towards practical "hands on" exercises and includes extensive use of level 1 certification testers and the required specialised testing procedures. Additionally the course contains full briefings on industry standards and codes of practice as well as health and safety awareness.

On successful completion of this course, delegates will be able to confidently carry out installations of data communications cabling systems.

COURSE DURATION

5 day course

COURSE CONTENT**History**

- The high-speed network
- Copper media
- Ethernet

Standards

- The relevant organisations
- Specifications in use today

Safety

- HASAW
- CDM regulations
- Hazards in the workplace
- Safe use of tools

Theory

- Electrical resistances
- Data rates/bytes
- Ohms law

Cables

- Co Axial
- Twisted pair UTP/STP
- Special cable types

System Topologies

- Point to point
- Star/bus/ring
- Backbone/horizontal
- Comms rooms/cabinets

Termination

- Outlet termination
- Patch panel termination
- Telecom outlets
- IDC punch down

Voice cabling

- CW 1308
- Colour codes

Testing

- The test equipment
- Test parameters explained
- Autotesting
- Determining faults
- CAT 6

Containment & Cable management

- EMC considerations
- Installing 3 compartment trunking
- Cable fixings and laying
- General cable handling

System design

- Layout
- Labelling
- Customer records

FURTHER TRAINING

- Fibre Optics Installation & Testing
- CAT 6 advanced testing
- Voice Cabling