Copper Structured Cabling Essentials

COURSE DESCRIPTION

This course provides a solid understanding of current copper structured cabling, safety considerations when handling low voltage LAN cables, installation procedures and testing. It gives electrical workers the essential knowledge required to work with, install and test structured cabling.

For organisations, the course provides a practical pathway to extend team capability into copper structured cabling installation, testing and maintenance.

WHO SHOULD ATTEND?

Electrical workers and cabling technicians seeking to expand their business portfolio to include the installation, testing and maintenance of copper structured cabling networks.

SOME COURSE BENEFITS

- Understand Cat.5e, Cat.6, Cat.6A and Cat.7 cables
- Understand and comply with structured cabling standards
- Reduce maintenance calls due to poor installation
- Comply with design & earth bonding requirements

FORMAT

1 day, interactive classroom-based, with formal written test, quizzes and hands-on exercises (approx. 50:50 theory to practical work).

Maximum attendees: 12 per course.

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CONTENT

Core Topics

- Global / ISO standards for network cabling and sub-standards
- Types of networks – LAN, MAN and WAN's
- Network components and applications
- Network speeds vs type of cable solution to use
- Network standards, codes, regulations for installation, design and testing.
- Categories of networks.
- Terminology of networks
- Data pathways, rules and regulations.
- Bonding / earthing networks, equipment, racks, trays, shielded patch panels
- Backbone cabling, planning, choosing cabling solutions, implementing.
- Colour coding
- Hands-on termination of copper cables

In addition to the above, the following detailed items are covered from a design, regulations, installation, termination and testing perspective.

Copper networks

- Patch panels – 19" 110, un-populated and wall mount
- Jacks – 110 UTP, STP, FTP, tool-less
- Cable – CAT 5-7, indoor outdoor, gel, LSOH
- Patch cords
- Consolidation points
- MUTOA points
- Cable pre-installation, handling, procedures, termination and testing

Test equipment

- Proper setup on test equipment – Fluke DSX 5000/DSX 8000 for testing copper
- Downloading test results and submission for certification

Note: All course content is based on ISO standards and applies to all countries and all brands of products used globally.

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Assessment (Optional for in-house courses)

- Instructor led interactive quizzes
- Multiple choice written test
- Practical Assessment

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