

Copper Structured Cabling Essentials

COURSE DESCRIPTION:

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

WHO SHOULD ATTEND:

Electrical workers and cabling technicians who want 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

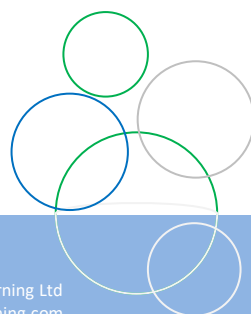
FORMAT:

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

LOCATION:

Mount Wellington / Penrose (South Auckland)



CONTENT:

- 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

Additionally to the above, the following detailed items are discussed from a design, regulations, installation, termination and testing angle.

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: Everything in the course is based on ISO standards and applies to all countries and all brands of products used globally.

Assessment (Optional for in-house courses)

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

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