

Install & Test Certification



Certified Network
Cable Installer

BTEC Level 3 Advanced
Award (Copper)



Customer Focused ▶▶▶
Quality Driven ▶▶▶▶▶

The **Global Leader of Technical Training and Education**
for the **Data Centre & Network Infrastructure Sectors**

Shaping the future of the Network Infrastructure Sector

CNCI® Copper Cabling

Program Overview

Become part of the biggest change in the Network Infrastructure Sector in many years...

The CNCI® is shaping the future of the industry. The Certified Network Cable Installer (CNCI®) program (which consists of the 5 day CNCI® Copper Cabling and the 5 day CNCI® Fibre Optic Cabling programs) and certification is helping to shape the future of the network cabling infrastructure sector by introducing professional and industry recognised certification to cable installers.

The CNCI® is designed for those wishing to demonstrate the highest levels of knowledge, skills and expertise in network cabling infrastructures. With a team of professionally trained and CNCI® certified individuals the risks are significantly reduced and organisations can feel confident that their staff are competent to meet today's industry demands. Employing un-trained staff to work on critical projects poses a significant risk to your business. Employing professionally certified and qualified staff who you can rely on to deliver consistent results, significantly reduces that risk and offers an impressive Return On Investment (ROI) against the cost of the technical training.

The CNCI® Copper Cabling program is comprehensive and blends a perfect mix of theoretical study and practical installation, testing and survey exercises providing the right level of knowledge and skills for copper installation practices and, combined with the CNCI® Fibre Optic Cabling program provides official CNCI® certification. This proves that an individual is qualified to undertake cable installation projects to the highest possible calibre whilst working to the current industry standards including BS EN, TIA and ISO, whilst following the very latest codes of best practice. During the program students will also have access to current standards for reference purposes.

CNCI® Copper Cabling Topics

Introduction to Structured Cabling

- ▶ Cable media types
- ▶ Network topologies
- ▶ Categories

LAN Hardware

- ▶ PC's, switches, routers

Installing Structured Cabling

- ▶ National and International standards
- ▶ Interpreting drawings
- ▶ Risk evaluation
- ▶ Working in containment routes
- ▶ Cable installation, cable termination
- ▶ Tool and equipment selection

Network Overview

- ▶ What is a network?
- ▶ Characteristics of a network
- ▶ Resource sharing

Signal Theory

- ▶ Electrical principals
- ▶ DC current principals
- ▶ Analogue v. digital

Health & Safety

- ▶ Legislation
- ▶ Workplace risk
- ▶ Electrical safety
- ▶ Working at heights
- ▶ Working in confined spaces

Standards

- ▶ Why standards?
- ▶ Standards bodies BSI, ISO, CENELEC, TIA/EIA
- ▶ Categories and classes

Fire Stopping

- ▶ Why fire stop?
- ▶ Types of fire stopping
- ▶ Three pillars of fire stopping

CNCI® Copper Cabling

5 DAY PROGRAM

Program Content:

The CNCI® Copper Cabling Program consists of 195 pages of rich technical content.

Student Profile

This program is perfect for individuals wishing to acquire the very latest skills and knowledge to enable them to complete copper cable installation projects to the highest standards. It is relevant to new entrants to the cabling industry in addition to those already working within the cable installation environment wishing to formalise their skills. Project managers, IT personnel, installation technicians, network engineers and electricians would all benefit from attending this program.

Pre-Requisites

No previous experience is required to attend this program. However, if you are working in the Network Infrastructure industry, it will prove advantageous.

Program Objectives

Successful students will have the knowledge and skills to confidently install, test and certify a complete copper cable installation. This forms part of the entry level requirement into the Global Network Infrastructure and Data Centre Education Framework which allows students to progress their knowledge, education and skills in line with their career within these fast moving industries.

If you are entering the industry or looking to formalise your skills with an industry recognised qualification and gain units towards the official CNCI® certification, this program, combined with the CNCI® Fibre Optic Cabling program is perfect for you.

Qualification

- ▶ Level 3 BTEC Advanced Award in Data Communications Cable Installation (Copper)

Documentation & Labelling

- ▶ Floor plans
- ▶ Naming conventions
- ▶ Symbols
- ▶ Records

Testing & Commissioning

- ▶ Continuity testing
- ▶ Certification/acceptance testing
- ▶ Level IV testing
- ▶ Saving of results to database
- ▶ O&M manuals

Practical

- ▶ Patch cord manufacture
- ▶ Cable installation
- ▶ Termination techniques UTP/STP
- ▶ Patch panel/outlet termination, Cat 5e/Cat6