



**Certified Network
Cable Installer**

Pearson BTEC Level 3 Award
(Copper)

5 Day Program

An Uptime Education Company

Global Leading Technical Education
for the **Digital Infrastructure Industry**

Program Duration

► 5 Day CNCI® Copper Cabling

Program Format

50% Theory, 50% Practical.

Program Objectives

Successful learners will gain the knowledge and skills to confidently install, test and certify a complete copper cable installation.

Learner Profile

The CNCI® Copper Cabling 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 network cable infrastructure sector in addition to those already working within the cable installation environment wishing to formalize their knowledge and skills.

Pre-requisites

No previous experience is required to attend this program.

Program Requirements

Learners are required to have:

- A laptop or suitable device with unrestricted wireless internet connectivity and a pre-installed web browser
- A suitable application for opening and reading PDFs. Typically, your device's in-built PDF reader is sufficient

Qualification

- Pearson BTEC Level 3 Award in Certified Network Cable Installer (Copper)

Certified Network Cable Installer (CNCI®) - Copper Cabling

Demonstrate the highest levels of knowledge, skills and competency in network cable infrastructure.

Program Overview

Undertake copper cabling installation, termination and testing to the highest quality whilst complying to industry best practice and standards to ensure a right first-time approach.

The Certified Network Cable Installer (CNCI®) has become the industry preferred certification for network cable installation and is specified as a requirement on many job profiles and installation project contracts. In addition, manufacturers, major installation companies, associations and consultants endorse the certification knowing that it provides the right level of technical knowledge, competence and confidence to the industry. In recognition of the CNCI® certification, many manufacturers also award accreditations towards their product warranties.

This comprehensive five-day program offers the perfect mix of technical knowledge and practical activities for copper cable installation. Official CNCI® Copper Cabling certification proves that an individual

is certified to undertake network cable infrastructure projects to the highest caliber whilst working to the current national and international industry standards and industry best practice. During the program learners will be provided a valuable opportunity to access the latest industry standards.

Having successfully completed this program, it is recommended that you attend the CNCI® Fiber Optic Cabling program to secure the full CNCI® certification. Following this, and with the appropriate level of experience, it is highly recommended that you continue your professional development by advancing your knowledge and skills to gain further official certifications and qualifications by progressing through The Global Digital Infrastructure Education Framework which maps education programs to career advancement throughout the network infrastructure and data center sectors.

The CNCI® Copper Cabling program is classroom-based and led by one of CNet's expert Instructors.

Certified Network Cable Installer (CNCI®) Copper Cabling - Topics

Introduction to Structured Cabling

- Cable media types
- Network topologies
- Categories

LAN Hardware

- PCs, 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 versus digital

Health & Safety

- Legislation

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

Standards

- Why standards?
- Standard bodies - BSI, ISO, CENELEC, TIA/EIA
- Relationships between standards
- Categories and classes

Fire Safety

- Why fire stop?

- Types of fire stopping
- Three pillars of fire stopping
- Construction Products Regulation (CPR)

Documentation & Labeling

- 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

Fluke CCTT (Copper)

- Copper certification (DSX)
- Set up DSX
- Test using DSX
- Troubleshoot
- Test standards/limits
- DSX diagnostics
- HDTDX and HDTDR

There are a number of individual practical activities and assignments leading to a group installation project.