# Certified Network Cable Installer - Copper Cabling Training

Duration: **5 Day**

BILGINÇ IT Academy
info@bilginc.com
+44 20 3807 0925
+90 212 282 7700

## Overview

Demonstrate the highest levels of knowledge, skills and competency in network cable infrastructure. Undertake copper and fibre 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 CNCI® certification is awarded on successful completion of both the CNCI® Copper Cabling and the CNCI® Optical Fibre Cabling programs.

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.

The CNCI® program blends a perfect mix of technical knowledge and practical activities for both copper and fibre component installation. Official CNCI® certification proves that an individual is certified to undertake network cable infrastructure projects to the highest calibre 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, 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 centre sectors.

The CNCI® program is led by CNet's expert Instructors.

## Prerequisites

No previous experience is required to attend this program, however if you are working in the network infrastructure industry, it will prove advantageous.

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## What You Will Learn

Successful learners 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 Digital Infrastructure Education Framework which allows learners 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® Optical Fibre Cabling program is perfect for you.

## Outline

- 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

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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

Relationships between standards

Categories and classes

Fire Safety

Why fire stop?

Types of fire stopping

Three pillars of fire stopping

Construction Product Regulations (CPR)

Documentation & Labelling

Floor plans

Naming conventions

Symbols

Records

Testing & Commissioning

Continuity testing

Certification/acceptance testing

Level IV testing

Saving of results to database

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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