Certified Network Cable Installer - Fibre Optic Cabling Training

Duration: **5 Day**

BILGINC IT Academy
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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.

What You Will Learn

Successful learners will have the knowledge and skills to confidently install, test and certify a complete optical fibre 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® Copper Cabling program is perfect for you.

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Training Outline

Safely Working with Fibre/General Safety

LED, VCSEL, laser safety

Fibre preparation hazards, disposal of sharps

Hazardous substances

OSP safety, pits, gas detection

General safety

Network Overview

History of fibre

Advantages

What is a network?

Benefits of a network

Topologies

Why a network?

Hardware

Cable construction

LED, VCSEL, laser sources

Switches, routers, media converters

Theory of Light Transmission

Optical windows

Electromagnetic spectrum

Transmission

Media choice

Cable

Construction

Choice of cable

Installation practices

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Patchcords

Enclosures

ODF

19” Splice tray

Slack fibre management, protection, patch field

Standards

Standards bodies BSI, ISO, CENELEC, TIA/EIA

Classifications

Application distances

Connectors

Connector types

Functionality

Density (SFF)

Outside Plant (OSP)

Fibre backbone in the LAN

Hardware

Media choice

Fibre Splicing

Safety

Fusion splicer set up and operation

Singlemode programs

Multimode programs

Splicing in patch panels

Fibre Termination

Safety

Pigtail manufacture

Techniques, cold cure, mechanical splice, fusion splice

End-face inspection techniques

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Fluke CCTT (Fibre)

Tier 1 fibre certification (CertiFibre® Pro)

Tier 2 fibre certification (OptiFibre® Pro)

Encircled Flux (EF)

End face inspection

Set a reference

OTDR event types

OptiFibre® Pro link testing