



Network Infrastructure Fundamentals

1 Day Instructor-led or 8 Hours Distance Learning Video Narrated Program



Program Duration

8 Hours Distance Learning or 1 Day Instructor-led

Program Objectives

This program provides an overview of network cabling infrastructure. The program also demystifies the technical terminology that permeates all extents of network infrastructure, using simple language, clear explanations, and useful analogies.

Learner Profile

This program has been designed for individuals who are either new to the network infrastructure sector or are seeking to develop their knowledge in relation to telecommunications networks. If you would like to discuss your experience or suitability for this program please contact us.

Pre-requisites

There are no specific pre-requisites for this program.

Program Requirements

Instructor-led: Learners are required to have:

- ▶ A webcam and microphone enabled laptop 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

Distance Learning: As a distance learner you have access to an experienced and dedicated online support team during your program. 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

Certification

- ▶ CNet Training certificate
- ▶ Use of the official Network Infrastructure Fundamentals digital badge

Network Infrastructure Fundamentals (NIF®)

Gain detailed knowledge in the field of telecommunications network infrastructure.

Program Overview

To operate successfully, all methods of communication require a source and a destination with a pathway in between. The source is most often a smart device such as a phone, tablet, scanner, camera, card reader, etc. The destination (the point of processing the data) could be a telephone exchange or storage and processing equipment in a data centre. The media pathway could be fibre optic or copper cables, or quite often wireless links.

This program provides a broad understanding of the principles of communications systems, an understanding of voice and data communications technologies, and how to relate that information to the complexity of the physical network required. It explores the physical infrastructure components that combine to create the pathways, containment systems and network cabling infrastructure.

Network Infrastructure Fundamentals (NIF®) Topics

- ▶ Basic network functions
- ▶ Networking technologies
- ▶ Ethernet, Passive Optical Networks (PON) and other distribution methods
 - ▶ Wi-Fi
 - ▶ Cellular infrastructure
 - ▶ Audio visual
 - ▶ Security
 - ▶ Internet of Things (IoT)
 - ▶ Smart environments
- ▶ Data communications principles
- ▶ Networking protocols
- ▶ Physical infrastructure
- ▶ Service assurance and maintenance
- ▶ Sustainability practices

“The NIF® program was thorough and engaging. The material was accessible and pitched at just the right level.”

NIF® Learner Comment