

TECHNICIAN



Certified Integrated Infrastructure Technician

Pearson BTEC Level 4 Professional Award

5 Day Program

CNet Training

An Uptime Education Company

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

Program Duration

5 days.

Program Format

30% Theory, 20% Case Study, 50% Practical.

Program Objectives

Learners will gain the knowledge, competency and confidence to install and commission smart building technology devices. On successful completion, learners will be able to demonstrate the highest levels of technical skills and capability when installing wireless access devices, VoIP telephony, CCTV cameras, door access controls and biometric security systems.

Learner Profile

This program is designed for those wishing to extend their technical knowledge and further develop practical skill sets, with the aim of achieving a broader technical level capability, supported by professional qualification and certification.

Pre-requisites

A minimum of two years installation experience within the network infrastructure sector is required. Successful completion of the Certified Network Cable Installer (CNCI®) program would be advantageous. If you would like to discuss your experience or suitability for this program please contact us.

Program Requirements

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 reading/annotating PDFs and a suitable application for editing standard office documents such as Microsoft Word, PowerPoint, and Excel

Qualification

- ▶ Internationally and industry recognised Pearson BTEC Level 4 Professional Award in Certified Integrated Infrastructure Technician

Certification

- ▶ Official Certified Integrated Infrastructure Technician (CIIT®) certification
- ▶ Use of the CIIT post nominal title
- ▶ Use of the official CIIT® digital badge
- ▶ Use of the CIIT® logo

Certifications are a commitment to lifelong learning and offer the perfect portal to ensure knowledge, skills and certification remain current and up-to-date. Each certification gained requires re-certifying every three years via an online learning management system.

Additional Awards

- ▶ Continuing Professional Development (CPDs)
- ▶ 5 IEEE Continual Education Units (CEUs)

Certified Integrated Infrastructure Technician (CIIT®)

Develop a 'smart hands' approach to infrastructure delivery and gain comprehensive knowledge of a range of intelligent devices that support smart building technical architecture.

Program Overview

The Certified Integrated Infrastructure Technician (CIIT®) program develops the knowledge and practical skills required to deliver network infrastructure projects, including the installation and commissioning of intelligent network devices. This comprehensive five-day program is perfect for those with at least two years of verifiable experience within the network infrastructure sector, or relevant qualifications and certifications in a wider project environment.

A certified CIIT® also considers the requirements for compliance, having a full understanding of national and international regulations, codes and standards. During the program, learners will be provided a valuable opportunity to access the latest industry standards.

Learners will explore the effect of bandwidth demand on the network, based on the operating parameters of a range of intelligent devices. In addition, the effects of power demand by Power over Ethernet (PoE) devices on the cable infrastructure will also be addressed.

Practical hands-on sessions are incorporated throughout this program, focusing on PoE network equipment architecture. Learners will also site and mount equipment to optimise coverage and direction, and will commission and configure devices into service. Such devices include wireless access points, AV systems, CCTV cameras and security control systems (both swipe access and biometric).

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

Ask Us About Apprenticeships



The First Government Funded Apprenticeship for Network Cable Installation Across England.

Includes CNCI® plus CIIT® certification. To find out more, visit cnet-training.com/nciaprenticeship

"I can't say enough how great I found the program.

**Really happy with the content and materials and I can take
this forward into my day-to-day work."**

CIIT® Learner Comment

Certified Integrated Infrastructure Technician (CIIT®) Topics

Role of the CIIT®

- ▶ Understand 'intelligent buildings and technologies'
- ▶ Select and prepare equipment for installation
- ▶ Install terminal equipment
- ▶ Commission terminal equipment
- ▶ Troubleshoot installations

Data-communications

- ▶ Binary coding
- ▶ Internet protocol
- ▶ IP addressing

Standards and Compliance

- ▶ BSEN 50173-6
- ▶ Legislation and regulation
- ▶ Compliance
- ▶ Warranties

Power over Ethernet (PoE)

- ▶ Concept
- ▶ PoE standards and power ratings
- ▶ Power considerations and media selection
- ▶ PoE injection devices
- ▶ Network segregation

Virtual Local Area Networks

- ▶ VLAN structure
- ▶ Planning the VLAN
- ▶ Switch configuration
- ▶ Network security

Integrated Network Architecture

- ▶ PoE capable technology
- ▶ Bandwidth demand
- ▶ Planning
- ▶ Media considerations

Network Commissioning and Troubleshooting

- ▶ BSEN 50174 quality standards
- ▶ Network warranty
- ▶ Commissioning PoE channels

Practical Installation Tasks

- ▶ Prepare, install and commission
- ▶ Access control devices
- ▶ CCTV camera systems
- ▶ Wireless access points
- ▶ Audio visual systems
- ▶ PoE network switches
- ▶ Configure devices
- ▶ Troubleshoot network failures

There is a final case study which challenges learners to plan and prepare their practical installation tasks.



CIIT® Benefits for Individuals

- ▶ Develop an increased technical knowledge and ability
- ▶ Enhance technical capability to deliver multidisciplinary projects
- ▶ Greater potential for variety and increase job satisfaction
- ▶ Gain an industry recognised qualification and official certification

CIIT® Benefits for Businesses

- ▶ Enhance your delivery portfolio, leading to greater opportunities when project tendering
- ▶ Take control of normally external dependencies
- ▶ Realise cost savings through greater efficiencies
- ▶ Investment in team development improves morale and job satisfaction leading to greater staff loyalty