Certified Network Infrastructure Technician

Duration: 5 Days **Course Code: CNIT**

Overview:

Take your existing network infrastructure skills to new levels allowing you to successfully control and deliver major infrastructure projects.

The five-day Certified Network Infrastructure Technician (CNIT®) program develops the knowledge and skills required to perform the multifaceted role in delivering complex projects to the site. Learners will greatly enhance their supervisory and management skills through a series of complex case studies mastering the knowledge and understanding required to interpret complex design documentation, the need to establish effective relationships and communications with principle stakeholders and managing the end-to-end project implementation cycle. They will develop an aptitude for logistics and resource management, including team health and safety, dealing with risks and issues that impact project delivery. A certified CNIT® will be undaunted when dealing with escalations and problem resolution within a strategic network infrastructure project. The impact to the project delivery of current and emerging networking technologies will also be explored including wireless access, security systems and VOIP.
Learners will gain an in-depth knowledge of technical parameters for cable testing and will demonstrate confidence when dealing with escalations from installers undertaking cable testing. Experience will also be gained in the management of test records using cloud-based applications, from cable testing through to the delivery of warranty certificates to the customer.
On successful completion, learners can demonstrate the highest levels of knowledge, competency and confidence in supervising the delivering complex infrastructure projects, demonstrating efficiencies in both time and cost, coupled with a focus on quality and accuracy to achieve project closure on time and within budget.
A certified CNIT® 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.
Following this program, you are encouraged to 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 CNIT® program is classroom-based and led by one of CNet's expert Instructors and is also available via remote attendance.

Target Audience:

This program is designed for those wishing to extend their knowledge, skills, qualifications and certifications into a wider and more complex project environment with emphasis on enhancing supervisory, leadership and management skills.

Objectives:

- Successful learners will have the added supervisory and management skills, knowledge and competency to confidently deliver complex infrastructure projects within site environments.

Prerequisites:

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.

Testing and Certification

- Certified Network Infrastructure Technician (CNIT®) certification
- Use of CNIT post nominal title
- Use of the CNIT® logo

Content:

Role of the CNIT®

Within:uuThe core layer

The distribution layer

The access layer

Fundamentals of Network Architecture

Networking protocols

Ethernet

Network architecture

Active network devices

3 layer network topology

Bandwidth demand

Intelligent building infrastructure

Internet of Things (IoT)

Wireless network standards uu802.11 variations

IEEE standards

Frequency bands

Channel overlap

Power Over Ethernet (PoE)

Compliance :

National/international standards

Legislative requirements

Bill of materials

Patch lists

Rack face layout

Health and Safety :

General requirements

CDM requirements

Permits and cards

Legal requirements

RiskuuIdentification

Evaluation

Mitigation

Risk assessments and method statements

Tool box talks

Network Implementation Management :

Outside plantuuManholes and building entry points

OSP cable run-out list

Material call off

Task planning

Inside plantuuPathways and containment systems

Material call off

Task planning

Copper cablinguuCustom setup

Channel testing

Requirements for PoE

Dealing with test failure escalations

Optical fibresuuLoss budgeting

Passive optical networks

Dealing with test failure escalation

Certification

Complex project structure

Project creation

Importing test results

Cloud access

Re-certification

Change Control:

MACs

Evaluating impacts on:uuCost

Time

Material

Project Closure :

Red-line drawings

Certification

Good practice

BS EN 50173 series

BS EN 50174 series

Other supporting BS EN standards

Construction products regulations

The approach to implementing standards

Design Documentation :

Active network design drawings

Inside plant drawings

Outside plant drawings

Network equipment room design

Quality Assurance

Fire Safety :

Regulations

Compartmentation

Fire stop rated materials

Construction Product Regulations (CPR)

Test Procedures and Escalations :

Certification Vs qualification

Warranty requirements

Testing principles

Test standards

Site closure

Pre-Class Study :Cabinets and Containment

Cabinet structure and components

Containment choices, types and construction methods

Separation of services

Fixings :

Fixing choices, types and construction methods

Tools

Deflection calculations

Structural Support

Additional Information:

CNIT® Benefits for IndividualsUtilise new multi-disciplined supervisory knowledge to manage people and tasks confidently and competentlyNew and improved technical skills, widening your scope of capability with up-to-date technology Greater understanding of project complexity enabling more effective delivery management Increased focus on service excellence resulting in a “right first time” approachAwareness of stakeholders enabling more effective communications Ability to effectively manage teams, resulting in improved team morale and performance Industry recognised qualification and official certification

CNIT® Benefits for Business Added supervisory skills provides the ability to realise cost efficienciesvthrough effective planning and manpower utilisation Improve confidence in project progression through accurate reporting Increased customer satisfaction leading to quicker project closure and final payment Greater opportunities for repeat business due to improved quality of service A more structured delivery methodology through standardised task planning and strategies Investment in team development, improves morale and job satisfaction leading to greater staff loyalty

Learners are required to bring a webcam enabled laptop or suitable device with unrestricted wireless internet connectivity, the latest internet browser and suitable applications for reading/ annotating PDFs and editing standard office documents.

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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