



Working Together to Shape the Future of Network Infrastructure Education



**EMPLOYER  
SERVICES**



**Network Cable Installer  
Apprenticeship in a Box**

**Dudley College of Technology  
working in partnership with  
CNet Training across the UK**



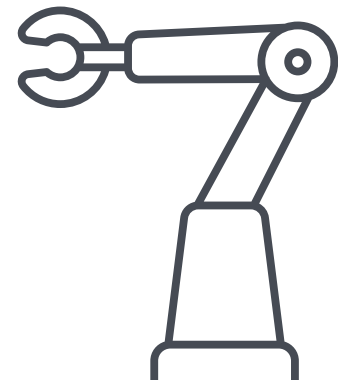
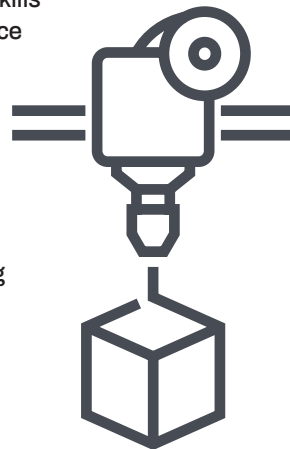
# Why partner with Dudley College of Technology?

**£12 million**

Invested in new Centre for Advanced Building Technologies and Construction Skills (Dudley Advance II campus)

**£9 million**

Invested in new 2,800m<sup>2</sup> Centre for Manufacturing and Engineering Technology (Dudley Advance campus)



Annual turnover in 2017/18

**£41 million**

We are one of the UK's major colleges for Further Education

Ofsted rated 2017  
**Outstanding**

Over  
**4,000**

apprentices on programme 17/18

**One of the top colleges nationally**

for the number of apprentices that successfully achieve their qualifications

We delivered training to over  
**12,600 learners**  
2017/18

Established  
in  
**1862**

# The Network Cabling Industry



## Everyone relies on network cabling and often without realising.

Whether it is just to check emails, manage traffic lights, air traffic control, watching Netflix, running a global organisation or other everyday technology that we don't even consider, the copper and fibre optic network cabling is absolutely essential to providing continuity of service so everyone can continue to operate.

Career opportunities within network cabling are strong. Considering the world relies on the network cable infrastructures it's a sector that is only set to grow and those who are able to prove their skills and knowledge with a certification and qualification are in demand. Many installation companies are keen to employ certified individuals; indeed the CNCI® certification is often stated as a must-have within tender documentation for new builds and refurbishment projects.

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It is without doubt that the network cabling sector is the 4<sup>th</sup> utility, it's so important yet nobody realises it.

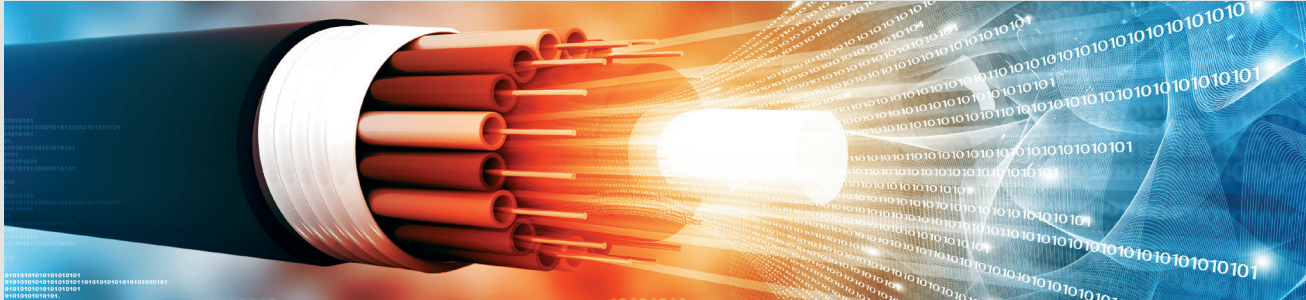
**Andrew Stevens,  
CEO, CNet Training**

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**Network Cable Installer  
Apprenticeship in a Box**

# Network Cable Installer (NCI Apprenticeship in a Box®)



## Network Cable Installer (NCI Apprenticeship in a Box®)

The Network Cable Installer NCI® Apprenticeship is an 'Apprenticeship in a Box' purely because all the planning has already been completed in readiness for both employers and employees to follow. This includes a detailed timetable of professional development activity to enhance knowledge and skills and become professionally certified, it therefore alleviates the need for the employer to dedicate valuable time and effort in this essential planning stage and allows the Apprentice to commence straight away.

### Apprenticeship Objectives

Gain the knowledge and skills to confidently install, test and certify copper and fibre cable installations whilst working to the correct standards and best practices. Have the desired levels of competency and confidence to install smart building technology such as wireless access devices, VoIP telephony, CCTV cameras, door access controls and biometric security systems.

### Duration

Typically 12-15 months.

### Funding Value

£9,000.

### Delivery Method

Block Release

### Professional Recognition

On completion, the apprentice will be eligible to apply for registration as a full member of the Institute of Telecommunications Professionals.

### Entry Requirements

Maths and English at Level 2 is required to complete the Apprenticeship.

## Progression

The opportunities for career progression within the network cable sector are strong. Being CNCI® and CIIT® certified opens opportunities to venture into more specific areas of technology or other specialist areas. Individuals may choose to expand their knowledge and skills into wireless or more integrated technology installation, or progress to become a site manager or sought-after network infrastructure designer, or enter the essential data centre sector as a technician.

## Industry Standard Qualifications are also included at no extra cost:

- Official Certified Network Cable Installer (CNCI®) certification
- Official Certified Integrated Infrastructure Technician (CIIT®) certification
- BTEC Level 3 Award Certified Network Cable Installer (Copper) (on completion)
- BTEC Level 3 Award Certified Network Cable Installer (Optical Fibre) (on completion)
- BTEC Level 4 Professional Award Certified Integrated Infrastructure Technician (on completion)
- NRSWA Guarding and Lighting/Operative - Unit 2



### Plus:

- Eligibility for an ECS (Electrotechnical Certification Scheme) Datacomms Specialist CNCI® Card (on completion)
- Eligibility for ECS Apprentice card

## Health & Safety Training

- Manual Handling
- Working at heights
- PASMA
- Asbestos
- Emergency First Aid
- NRSWA
- IPAF

## The Apprenticeship is delivered by block release (see the timetable for further details)

Month 1	Month 2	Month 3	Month 4
<ul style="list-style-type: none"> <li>• Employer induction</li> <li>• College induction</li> <li>• Asbestos Awareness</li> <li>• Manual Handling</li> <li>• Working at Heights</li> <li>• Emergency First Aid</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• Certified Network Cable Installer (CNCI®) (Copper)</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• Copper Cabling Practise (with employer)</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• Daily duties with Employer</li> </ul>
Month 5	Month 6	Month 7	Month 8
<ul style="list-style-type: none"> <li>• Certified Network Cable Installer (CNCI®) (Fibre)</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• PASMA</li> <li>• Fibre Optic Cabling Practise (with employer)</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• IPAF</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• Containment Systems Installation &amp; Data Rack Construction</li> <li>• Daily duties with Employer</li> </ul>
Month 9	Month 10	Month 11	Month 12
<ul style="list-style-type: none"> <li>• Level 2 Confined Spaces</li> <li>• Containment Systems Installation Practise (with employer)</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• Certified Integrated Infrastructure Technician (CIIT®)</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• NRSWA Unit 2 Signing, Lighting and Guarding Training - Unit 2</li> <li>• Network Equipment Installation Practise (with employer)</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• Daily duties with Employer</li> </ul>
Month 13	Month 14	Month 15	
<ul style="list-style-type: none"> <li>• End Point Assessment Preparation &amp; Gateway Submission</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• EPA Preparation</li> <li>• Daily duties with Employer</li> </ul>	<ul style="list-style-type: none"> <li>• End Point Assessment</li> <li>• Daily duties with Employer</li> </ul>	

## Occupational Profile

The role of the network cable installer is to install, terminate, test and certify network cable infrastructure components in accordance with National and International industry standards. This network infrastructure will provide the communications backbone for the digital infrastructure ecosystem, enabling all types of digital devices including computers, servers, smart devices, security equipment, wireless access points, access control, building management systems and lighting systems to communicate between each other, internally, nationally and globally.

Installers work in data sensitive environments and contribute to the organisation's cyber security strategy by ensuring the physical security as well as complying with basic cyber security principles for the maintenance of confidentiality, integrity and availability of data.

They could be called upon to work in the Inside Plant (ISP) environment, which is dedicated to the installation of cable within buildings and structures, and the Outside Plant (OSP) environment, which is dedicated to the installation of cable externally between buildings, cities and countries.

The size of the task or project that a network cable installer could be involved in ranges from a single outlet point in a customer's premises to thousands of outlets in new office blocks, or from a single fibre cable termination in a building to the installation of hundreds of fibres over many kilometres in local, national and

international communities. The role of the installer is very physical and often involves lifting and moving heavy equipment.

Striving to deliver excellent and consistent levels of customer service is a vital part of the role. Installers work diligently to accurately interpret customer requirements and endeavour to meet high quality standards.

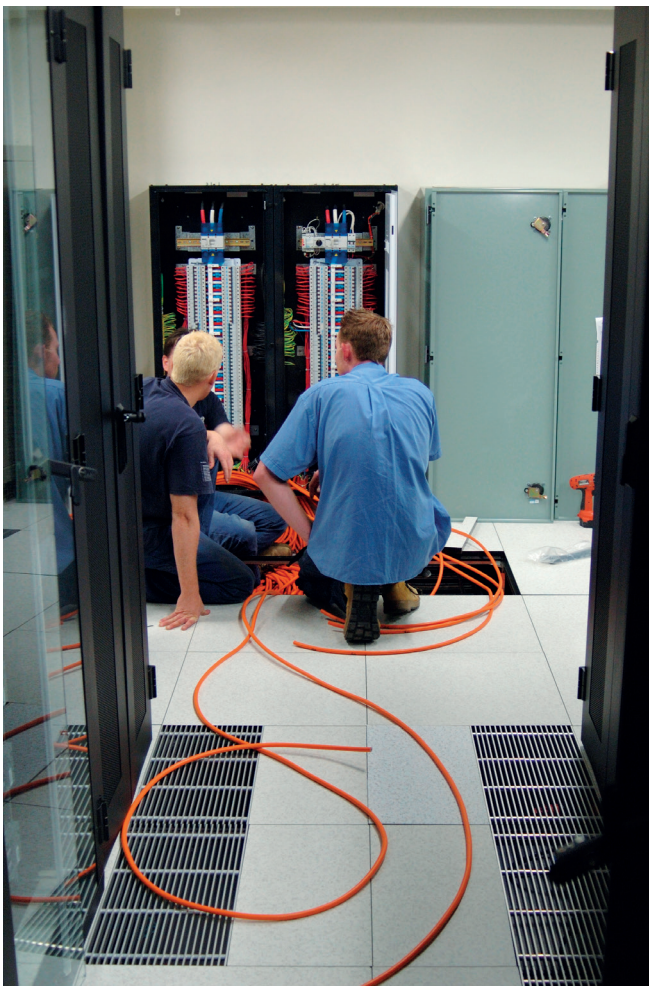


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At LMG our teams are our business. We have always focussed on continued development and growing our own talented workforce. The NCI Apprenticeship in a Box® is therefore perfect for us. Its flexibility allows the learning to be scheduled around the needs of the business, and its structure keeps the learners motivated, allowing them to put newly learned skills to the test in the actual workplace.

**Ieuan Rowe, Managing Director,  
Line Management Group Ltd**

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## Apprenticeship Overview

### The first government funded Apprenticeship for network cable installation.

The Network Cable Installer (NCI Apprenticeship in a Box®) is perfect for individuals wishing to acquire the knowledge to enable them to complete both copper and fibre cable installation projects and demonstrate the highest levels of skills and expertise in network cabling infrastructures.

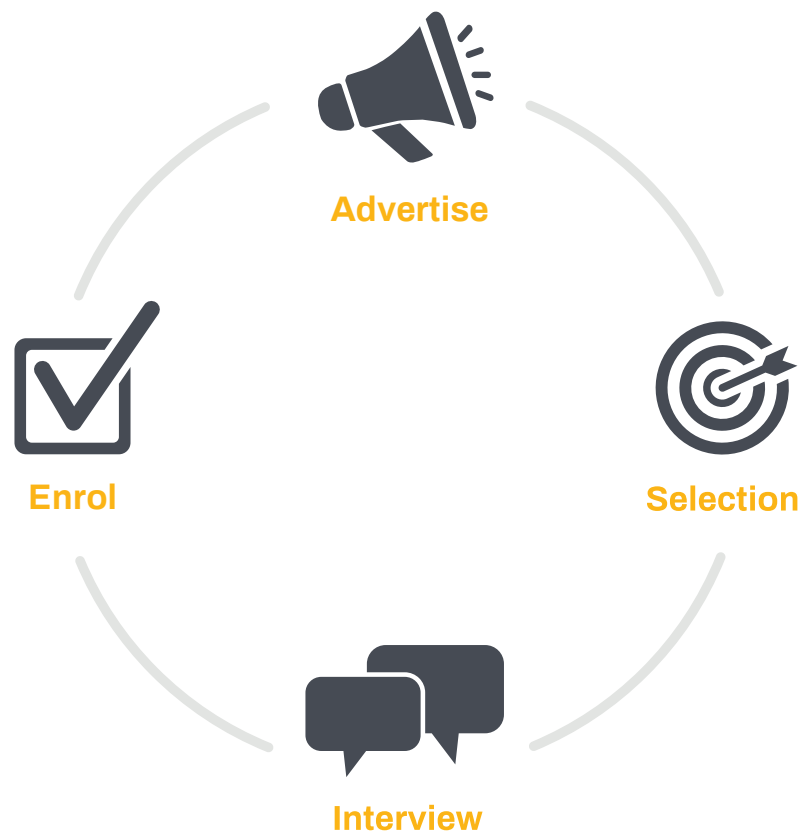
It is relevant to new entrants to the cabling industry in addition to those already working within the cable installation environment wishing to improve their skills.

### Key Duties and Tasks

- Install copper cables, which are widely used to inter-connect communicating devices e.g. computers, scanners and printers to servers within office buildings, industrial buildings, hospitals, data centres, and fibre optic cables, which are widely used for connecting between floors within buildings, buildings to buildings and cities to cities, as well as providing the highest speed broadband to homes
- Interpret detailed project plans to construct and fix network equipment cabinets, prepare cable pathways, and install cable support and containment systems
- Install network equipment in cabinets in accordance with manufacturer's specifications, including routers, switches and WAN equipment
- Undertake performance-based testing and provision of certification to the customer. During the lifespan of the network, carry out maintenance where faults have occurred
- Work in potentially hazardous areas such as building sites, highways and railways, and exercise responsibility for the safety of themselves as well as anybody in the local area who could be affected by their actions
- Exercise responsibility for the care and maintenance of a wide range of specialist tools, ensuring that equipment is serviceable and in calibration (where appropriate), at all times
- Use workforce management systems for a range of workflow activities as well as personal time and attendance tracking
- Typical job titles include Network Cable Installer, Structured Cabling Installer and Telecomms Cable Installer.

# Apprenticeship recruitment service

Free Apprenticeship recruitment service for all levy and non-levy paying employers - a step-by-step guide:



## Advertise

We will advertise your vacancy to our own learners and further afield too, via the National Apprenticeship Service. Our free recruitment service means not only will we advertise your vacancy, but we will also refer pre-selected applications suitable for the role.

## Selection

Our team will match and screen potential applicants to your specific needs and job role and will send their details direct to you. We measure candidates against your individual criteria (which could include qualifications such as GCSE English and Mathematics) and make sure they understand the vacancy, the role, the commitment and your company's expectations of them.

## Interview

Arranging interviews, particularly for smaller employers who may not have a full-time HR resource, can be a drain on management time, so we can do that for you too! You just have to look over the CVs and agree which candidates you'd like to meet.

## Enrol

Leave all the paperwork to us. When your apprentice starts their employment we will enrol them onto the Apprenticeship and the journey to skilled and qualified staff begins.

# Get in touch!



**Call us...**  
01384 363 808



**Visit us online...**  
[dudleycol.ac.uk](http://dudleycol.ac.uk)



**Email us...**  
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hands-on  
**thinking**  
Since 1862