

**601/6550/9**

## **NOCN Level 3 Diploma in Civil Engineering**

### **OVERVIEW**

#### **What is the primary purpose of the qualification?**

This qualification's primary purpose is for learners wanting to start a career in the civil engineering sector. This qualification will enable learners to develop an understanding of the roles before undertaking further study in civil engineering or proceeding into engineering-related apprenticeships or employment.

#### **Who is this qualification for?**

The **NOCN Level 3 Diploma in Civil Engineering** is predominantly a knowledge based qualification for learners who wish to work in the civil engineering sector.

#### **What prior qualifications/levels of attainment does a learner need to take this qualification?**

Learners should have GCSE A\*- C grades in mathematics and English. This qualification is suitable for learners aged **16 years or over**.

#### **What is the content of the qualification?**

The qualification is **60** credits, **360** guided learning hours and can be completed over a one to two year period.

You will study theoretical aspects of the subject and apply them to practical tasks. Mandatory topics include:

- Employment Framework in Civil Engineering
- Health, Safety and Welfare in Civil Engineering
- Sustainability in Civil Engineering
- ICT and 3D Building Information Modelling in Civil Engineering

You must also complete one of the following pathways:

<p><b>1. Civil Engineer:</b></p> <ul style="list-style-type: none"> <li>Principles of Civil Engineering</li> <li>Science and Material in Civil Engineering</li> <li>Project Management in Civil Engineering</li> <li>Water and Waste Management in Civil Engineering</li> </ul>	<p><b>2. Structural Engineer:</b></p> <ul style="list-style-type: none"> <li>Structural Analysis and Design in Civil Engineering</li> <li>Structural Behaviour and Detailing in Civil Engineering</li> <li>Structural Mechanics in Civil Engineering</li> </ul>	<p><b>3. Design:</b></p> <ul style="list-style-type: none"> <li>Building Information Modelling in Civil Engineering</li> <li>Civil Engineering Design Procedures</li> <li>Civil Engineering Design Technology</li> </ul>	<p><b>4. Building Information Modelling and Computer Aided Design Technician:</b></p> <ul style="list-style-type: none"> <li>Building Information Modelling in Civil Engineering</li> <li>Computer-Aided Drafting and Design for Building Information Modelling in Civil Engineering</li> <li>Graphical Detailing in Construction and Civil Engineering</li> </ul>
<p><b>5. Surveyor:</b></p> <ul style="list-style-type: none"> <li>Setting Out Processes in Civil Engineering</li> <li>Surveying in Civil Engineering</li> <li>Surveying Technology in Civil Engineering</li> </ul>	<p><b>6. Quantity Surveyor:</b></p> <ul style="list-style-type: none"> <li>Building Regulations and Control in Civil Engineering</li> <li>Mathematics in Civil Engineering</li> <li>Quantity Surveying, Estimating and Tendering Processes in Civil Engineering</li> </ul>	<p><b>7. Mechanical and Electrical Engineering:</b></p> <ul style="list-style-type: none"> <li>Mechanical and Electrical Services in Civil Engineering</li> <li>Mechanical Engineering</li> <li>Renewable Energy in Civil Engineering</li> </ul>	<p><b>8. Modular Construction:</b></p> <ul style="list-style-type: none"> <li>Computer-Aided Drafting and Design for Building Information Modelling in Civil Engineering</li> <li>Designing and Planning Modular Construction</li> <li>Modular Construction</li> </ul>

Employer engagement is an **essential** requirement of this qualification and will be organised by your training provider. To support employer engagement your training provider should organise one or more of the following activities as part of your programme of learning:

- Relevant work experience with a local employer
- Local employers giving talks and presentations

- Visits arranged at local civil engineering projects
- Employer-provided projects will be used as part of the training.

## WHAT COULD THIS QUALIFICATION LEAD TO?

### Will the qualification lead to employment?

This is an expanding sector and employers are looking for new entrants to help with the delivery of a wide range of civil engineering projects. By completing this qualification learners will be able to demonstrate to employers that they have an interest in working within civil engineering. Employment opportunities could include:

- Trainee Civil Engineering Technician
- Trainee Quantity Surveyor
- Trainee Structural Technician
- Trainee Computer Aided Design Technician

### Will the qualification support progression to further learning?

Achievement of this qualification could support progression onto the following Apprenticeships:

- Surveying Technician Apprenticeship Standard
- Level 6 Higher Apprenticeship in Construction Management
- Level 5 Higher Apprenticeship in Construction
- Level 3 Advanced Apprenticeship in Engineering Construction
- Level 3 Advanced Apprenticeship in Building Services Engineering Technology and Project Management

Achievement of a Distinction Grade within this qualification, together with A Level mathematics (Grade A) will support your application to University for study in the following subjects:

- Civil Engineering MEng, BEng
- Civil and Structural Engineering MEng, BEng
- Quantity Surveying BSc

### Why choose this qualification over similar qualifications?

This qualification has been designed in partnership with leading civil engineering companies to provide the learners with the skills and knowledge required to start a career in modern civil engineering.

## WHO SUPPORTS THIS QUALIFICATION?

**This qualification is supported by a range of employers including:**



This qualification has industrial support from some of the country's major civil engineering companies:

- Morgan Sindall
- Laing O'Rourke
- Howard Civil Engineering
- BAM Construct UK Limited
- Graham Construction.

## **FURTHER INFORMATION**

If further information is required, please contact the NOCN Business Development Team:

[\*\*business-enquiries@nocn.org.uk\*\*](mailto:business-enquiries@nocn.org.uk)