

Apprenticeships +

Construction
Site Engineering
Technician

Apprenticeship
Level 3





Quick Information

New Apprenticeship Standard designed by employers for employers

Sector

Construction / Civil Engineering

Who is it for?

Trainee's in Civil design and Site engineering roles

Start date

September start

Level

Level 3

Duration

The typical duration for this Apprenticeship is three years but this will depend upon the previous experience of the apprentice and access to opportunities to gain the full range of competence.

How does it work?

Attending Sheffield college 1 day a week, Studying a Level 3 Diploma in Civil Engineering for 2 years and working towards an End Point Assessment in year 3.

Content

The Pearson BTEC Level 3 National Extended Diploma in Civil Engineering and the Built Environment is intended as a Tech Level qualification. It allows learners to develop a substantial core of knowledge, to study in depth a full range of optional units, and to develop the broader skills highly valued by higher education institutions.

Assessment

The Level 3 Diploma assessment has both examinations and assignments, to show a relevant level of learning has taken place over the 2 years.

Qualification

Pearson BTEC Level 3 National Diploma in Civil Engineering

Additional qualifications

English and Maths will at Level 2 will need to be achieved before taking the end point assessment and will be included in the Level 3 qualification.

Review

This Apprenticeship standard should be reviewed three years after approval of the standard.

Construction Site Engineering Technician

Looking after the technical, organising and supervising side of construction projects

The occupation covered by this standard is Construction Site Engineering technician and typical job titles can include: Assistant Site Engineer, Assistant Engineer, Civil Engineering Technician or Construction Site Technician. In the case of SME construction companies the roles are likely to include Site Engineer, Civil Engineer or Project Engineer. They are associated with the dimensional control and application of engineering solutions on construction projects and are based on construction sites with occasional time in offices.

The main duties and tasks of a Construction Site Engineering Technician are:

- Dimensional control of construction projects
- Assisting design teams with civil engineering solutions on construction projects
- Supervision of specialist contractors
- Contribute to the control of health and safety on construction projects
- Recording, control and reporting of progress on a construction project
- Contribute to the minimisation of the environmental impact of construction projects
- Control the quality of works on a construction project



Key Areas of Study

The Knowledge, skills and behaviors content are embedded within the course either within the BTEC Diploma or the portfolio of evidence that is to be collated with the help of the work based assessor.

Knowledge

Health and Safety

Understand the sustainability issues in projects across economic, social and environmental aspects

Sustainability

Understand engineering techniques, procedures and methods and the principles of design

Engineering Principles

Understand engineering techniques, procedures and methods and the principles of design

Construction Management

Understand management principles and the project management lifecycle

Planning and Organising Work

Understand the importance of project planning and resourcing and be able to analyse different techniques

Monitor Quality

Able to define the quality required on a finished construction project

Skills

Health and Safety

Identify risk of activities and encourage all employees to demonstrate safety-conscious behaviours

Sustainability

Assess, identify and record the environmental impact of projects

Engineering Solutions

Assist in the implementation of the most appropriate solutions for construction projects

Construction Management

Use effective management principles and be able to supervise construction workers

Planning and Organising Work

Understand overall plan for project and measure and record progress against plan

Monitor Quality

Assess and report on quality standards of finished construction projects

Behaviours

Professional Judgement

Be able to work within own level of competence and know when to seek advice from others

Commitment to Code of Ethics

Work within Rules and Regulations of Professional Competence and Conduct for the Institution of Civil Engineers

Continuing Professional Development

Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.

Commitment to Equality and Diversity

Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work.

Communicate Effectively

Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.

Work in Teams

Be able to work with others in a collaborative and non-confrontational way.

Demonstrate Innovation

Be able to identify areas for improvement and suggest innovative solutions.



Apprentice Entry Requirements

Individual employers will determine their own entry requirements, but the typical entry requirements for this Apprenticeship will be five GCSEs or equivalent, including Maths, English and a Science; or a Level 2 Apprenticeship.

Progression Opportunities

On completion of the Level 3 standard, the student is expected to be progressing from a trainee to an assistant technician and looking at studying an Level 4 HNC in Civil Engineering.

More Information

To find out more about the opportunities and financing of apprenticeships and to discuss your particular requirements, please email apprenticeshipsandtraining@sheffcol.ac.uk or call **0114 260 2600** to speak to one of our friendly employer advisors.

Get In Touch

Email

apprenticeshipsandtraining@sheffcol.ac.uk

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0114 260 2600

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facebook.com/ShefColAppsPlus

LinkedIn

linkedin.com/company/the-sheffield-college



Why choose The Sheffield College?

As one of the region's largest providers of apprenticeships, The Sheffield College is more than just your local provider; we deliver the dedicated support you need to source, train and get the best out of your apprentice.

We appreciate how difficult and time consuming it can be to recruit suitable staff. That's why we will source, shortlist and prepare candidates before you meet them.

We help you get the best deal by finding the right funding and we handle the paperwork to make the process of arranging an apprenticeship training programme as smooth as possible. Our employer partnership team, apprenticeship tutors and assessment staff are experts, and we invest time and money in training and upskilling them regularly so their knowledge is up-to-date and industry standard.

At The Sheffield College we go above and beyond; we know that every business is different and we help to develop apprentices who will meet the needs of your business.

Training, Tutoring and Assessment

We are committed to delivering a course that facilitates the students need to progress in education to allow them to expand their knowledge and experience to help with the opportunity of promotion within their own companies.

Our expectations are that the student fully engages with the course programme, allocating sufficient time with their studies at college and self directed studying and with the full support of their employers.

End Point Assessment

The End Point Assessment is divided into two stages.

Stage 1 – is the preparation for the presentation and structured interview. It will consist of:

- A project which will test the apprentice's ability to integrate the knowledge, skills and behaviours acquired during the apprenticeship by developing a response to a technical brief set by the assessment organisation, with a number of options and a rationale for the choice of one as the optimum solution
- A written report of 1500–1600 words which demonstrates how, in the course of their apprenticeship, the apprentice has integrated the knowledge, skills and behaviours to be a competent Construction Site Engineering Technician. The report is verified by a professionally qualified engineer and will be used to inform the structured interview.

Stage 2 – is the face to face stage which will consist of:

- A 10 minute presentation by the apprentice to the Assessor Panel showcasing their response to the project brief. This will be followed by 10-15 minutes of questions and discussion.
- A 30–40 minute structured interview based on the written report submitted prior to the interview, the purpose being to determine the apprentice's ability to integrate the knowledge, skills and behaviours acquired during the apprenticeship.

To be successful the apprentice must pass the Presentation and Structured Interview. The presentation is supported by a technical project brief which will be graded as part of this assessment method. The structured interview is informed by a written report, which will also be graded as part of this assessment method.

*For more information on the assessment for the **Construction Site Engineering Technician** Apprenticeship please see the full assessment plan in the Apprenticeship Standard documentation. We will arrange the End Point Assessment.*