

CONSTRUCTION SITE ENGINEERING TECHNICIAN Apprenticeship Standard

1. Occupation(s)

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.

2. Occupational profile

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

3. Requirements: Knowledge, Skills and Behaviours

Knowledge	What is required
Health and Safety	Understand the principles and responsibilities imposed law and other regulations in a construction environment
Sustainability	Understand the sustainability issues in projects across economic, social and environmental aspects
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	What is required
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	What is required
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.

4. 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.

5. 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.

6. Qualifications

The following qualification will be gained:

A Level 4 qualification in Construction and Built Environment that meets the knowledge requirements of the standard and is approved by the Institution of Civil Engineers as meeting the educational requirements for EngTech MICE

7. English and Maths

English and Maths will at Level 3 will need to be achieved before taking the end point assessment and will be included in the Level 4 qualification.

8. Link to professional registration

This Apprenticeship will include the knowledge, skills and behaviours required to achieve Technician status with the Institution of Civil Engineers (EngTech MICE). The Technician Professional Review process for EngTech MICE is included in the end-point assessment process for this Apprenticeship and will lead to the designatory letters EngTech MICE and the status of Engineering Technician.

Level

This Apprenticeship standard is at Level 4.

Review date

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