

# Level 3

APPRENTICESHIP STANDARD

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## Civil Engineering Technician



**For careers in:**

- Civil Engineering Technician
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# Standard overview

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A civil engineering technician provides technical support to engineers and other construction professionals in the design, development, construction, commissioning, decommissioning, operation or maintenance of the built environment and infrastructure.

Technicians will be required to have a broad skills base to work in areas which include sustainable construction, structural integrity, geotechnics, materials, tunnelling, marine and coastal engineering, water, waste management, food management, transportation and power.

A technicians work will involve:

Design – assisting in the development of technical solutions by producing design models, calculations, reports and drawings, surveying a site, using appropriate analysis and relevant codes.

Analysis – using appropriate software systems and other data gathering tools and tests to solve technical problems.

Project delivery – contributing to planning, managing work schedules, budgets and deadlines, and ensuring outputs comply with client and industry specifications, standards and guidance.

Site engineering – operating quality systems and health, safety and risk management procedures and checking specified technical aspects of site activities.

This standard will be suitable for school leavers or those in employment wishing to progress to a career in civil engineering.

## Standards – the benefits

At Learning Unlimited, we provide high quality training and development solutions for organisations across the UK. The Level 3 apprenticeship standard offered by Learning Unlimited brings together a range of benefits. From start to finish, we work with your business to tailor our training to meet your needs. With an excellent track record in delivering training to a variety of organisations and businesses, we can find a solution to help you take your staff to the next level.

## Entry requirements

- Five GCSEs at grade C/4 or above (including English and science, and a B/5 in maths).

## Duration

- 36 months.

## Workplace behaviours development

- Take a responsible approach to health and safety.
- Be professional, proactive and receptive to constructive advice and guidance.
- Be willing to learn new skills and to adapt in the light of experience.
- Work independently when appropriate and take responsibility for and pride in work.
- Demonstrate a positive approach to problem solving.
- Effectively contribute to discussions as part of a team.

## Skills and knowledge development

- The different techniques and methods used to design, build and maintain civil engineering projects.
- The appropriate scientific, technical and engineering principles relating to the design, delivery and maintenance of infrastructure and buildings.
- How to work effectively and contribute to engineering solutions by the correct use of resources and time.
- Sustainable development and their own contribution to economic, environmental and social wellbeing.
- Manage and maintain the quality of their own work and that of others.
- Keep themselves and others safe by adhering to safe working practices.

## End Point Assessment (EPA)

- Presentation and questioning on technical project brief.
- Structured interview informed by the written report.

## Qualifications or Industry Accreditation gained

- A Level 3 apprenticeship standard as a Civil Engineering Technician.
- Professional EngTech status.

# Delivery plan and apprentice progression

Throughout the apprenticeship, the apprentice is supported by a work-based tutor and employer mentor to ensure that they are progressing at the right pace and developing the skills and knowledge expected.

## Month 1-12

- Induction
- Underpinning knowledge, skills and behaviours
- Practical activities
- Portfolio tasks
- On-site assessment
- Mentor reviews

## Month 13-24

- Mentor review and target setting
- Underpinning knowledge, skills and behaviours
- Mock presentation
- Mock structured interview

## Month 25-30

- Mentor review and target setting
- Underpinning knowledge, skills and behaviours
- Preparation for End Point Assessment
- Mock presentation
- Mock structured interview
- Portfolio review and identification of skills and knowledge gaps

## Month 31-36

- Mentor review and target setting
- Revision and reflection
- Mock End Point Assessment
- Portfolio showcase
- Final End Point Assessment

## Off-the-job training

Every apprenticeship includes off-the-job training.

This takes place during time normally spent at work but does not include the usual daily duties and responsibilities carried out as part of their normal role. It can consist of work and tasks ranging from projects, lectures and seminars to day release, blended learning and training to use specialist equipment.

It can form part of regular weekly sessions or be combined for larger blocks of time, depending on the approach that works best for the employer and equates to approximately one day per week.

## Progression

Upon successful completion apprentices will be eligible to progress onto a higher level apprenticeship or university degree, or enter employment within the industry.

The delivery plan is for illustrative purposes only and may be subject to change.