

Engineering

Engineering: Civil Engineering Technician Level 3 Apprenticeship

In Brief

Start Date / Duration

This apprenticeship programme can be started at any time. The duration for this apprenticeship is typically 36 months.

Entry Requirements

Employers will set their own requirements but typically an apprentice will be expected to have achieved at least 5 GCSEs at Grades 9-4/A*-C including Maths (Grade 5/B), English and Science or their equivalent. Apprentices without level 2 English and Maths will need to have achieved this prior to taking the end point assessment.

You will achieve

Civil Engineering Technician Level 3 Apprenticeship standard

Course Overview

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, flood management, transportation and power.

Click here [<https://www.instituteforapprenticeships.org/apprenticeship-standards/civil-engineering-technician/>] for more information regarding the apprenticeship standard

Course Content

You will need to show competence in the following areas;

- The different techniques and methods used to design, build and maintain civil engineering projects. This includes understanding how ideas and requirements are converted into engineering designs; knowing the standards, contracts and specifications and their impact on the

design and construction process

- The appropriate scientific, technical and engineering principles relating to the design, delivery and maintenance of infrastructure and buildings. This includes an understanding of the mathematical, scientific and engineering techniques required to support the design and construction processes, including building information management and modelling aspects of civil engineering disciplines with a demonstrable knowledge of sustainability
- How to work effectively and contribute to engineering solutions by the correct use of resources and time. This includes an understanding of project management systems, tools and techniques as they are applied to the design and construction process
- How to communicate effectively using a range of techniques. This includes an understanding of different communication methods and when to use them; how to write technical reports; drawing and modelling conventions and engineering terminology; collaboration and effective team working
- The code of conduct of relevant professional bodies and institutions including ethics and their application in design and delivery of projects. Understanding the protection of client confidentiality, the need to adhere to corporate policies on ethics and diversity and the professional obligation to make a contribution to society
- Safe working practices and how to comply with them. Understanding regulations such as Construction Design and Management (CDM), Common Safety Method (CSM), hazard identification, mitigation and health safety and risk management in relation to project delivery
- Sustainable development and their own contribution to economic, environmental and social wellbeing. Understanding company and client sustainability and environmental policies and their impact on design and delivery; and an awareness of the environmental impact of projects and mitigating actions
- Sources of and approaches to Continuing Professional Development (CPD). This includes an understanding of appraisal schemes including training

How will I be assessed?

You will be assessed by your assessor using a portfolio of evidence, practical demonstrations and assignments. You will be assessed both in college and in your place of work.

What Equipment Will I Need?

You will be required to provide paper, writing materials, A4 ring binder file, extra wide dividers and clear plastic wallets.

What will I be studying?

You will study within the workplace and attend classes at Barnsley College's Construction Centre.

What can I do next?

Where will I study?

You will study within the workplace and attend classes at Barnsley College's Construction Centre.

What can I do next?

On completion of the apprenticeship the apprentice will have satisfied the requirements for

registration as an Engineering Technician by the relevant professional engineering institution in accordance with the requirements of the Engineering Council as the registration body, and development plans, CPD obligations and competency requirements relating to self and others.

How much does the course cost?

There is no cost to being an apprentice. All costs associated with your apprenticeship, including the cost of training and your salary, will be paid by your employer.

Financial support

You may be eligible for assistance with expenses such as travel, books, equipment and childcare. For further information please contact the Student Services Team on +44 (0)1226 216 267.

Extra information

Contact the Apprenticeship Team

For further information please contact the team on 01226 216166 or email: apprenticeships@barnsley.ac.uk [mailto:apprenticeships@barnsley.ac.uk]

Want to join Barnsley Sports Academy and the Sports Village?

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [<https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/>] where students can make use of our fitness suite, spinning studio and classes for competitive rates. You don't have to be studying sport to get involved in the Sports Academy [<https://www.barnsley.ac.uk/our-departments/sport/sports-academy/>] .

Additional Learning Support

Our Additional Learning Support team can provide you with the support you need. Please contact them on +44 (0)1226 216 769.

Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

Last updated: 16th June 2022

Want to apply?

Visit <https://www.barnsley.ac.uk/apply> to get started

Call us on **01226 216 123**