



## Engineering Design and Draughtsperson

### Course Overview

- ◆ This apprenticeship programme includes learning about the primary role of an engineering design and draughtsperson, who produces designs and drawings for structures, piping, electrical systems, control instrumentation systems, and similar for industrial or commercial construction.
- ◆ The apprentice will likely work from an office with project design teams, but may occasionally work at on-site locations following health and safety requirements. Communicating design information to internal and external parties is crucial.
- ◆ They will learn to understand technical drawings and specifications to meet project briefs and identify factors that may affect design decisions as they create drawings using computer aided design (CAD) models.
- ◆ Students will typically work in a wide range of industries such as power and water infrastructure, petrochemical, oil and gas, nuclear, food and drink processing.
- ◆ Some of the core competencies the apprentice will learn include: reviewing and interpreting technical information and requirements from different sources e.g. specifications, concepts, stakeholders, designing engineering concepts to solve engineering challenges, developing effective solutions which satisfy the required standards and can be manufactured, proven, operated and maintained in a cost-effective way whilst minimising costs, and following common engineering principles and the application of maths and science to engineering.

[bcot.ac.uk/apprenticeships](http://bcot.ac.uk/apprenticeships)

## Who is it aimed at?

It's open to all ages - not just school or college leavers, employed adults are eligible too. The course is for anyone interested in the following job roles:

- ◆ Electrical Design and Draughtsperson
- ◆ Control/Instrumentation Design and Draughtsperson
- ◆ Mechanical Design and Draughtsperson
- ◆ Piping Design and Draughtsperson
- ◆ Structural Design and Draughtsperson
- ◆ Civil Engineering Design and Draughtsperson

## Duration

- ◆ This apprenticeship takes approximately 42 months (this does not include EPA period) for the apprentice to fully complete.

## How is this apprenticeship delivered?

- ◆ As part of this apprenticeship programme, the apprentice will learn and work on the employer premises, completing tasks for portfolio building and practical role-related projects.

## Entry requirements

- ◆ Employers set their own entry specification but the apprentice will complete Maths and English functional skills if they did not achieve GCSE grade 4 or above.

## Off-the-job funding rule

- ◆ The funding rules state that 20% of the apprentice's time must be spent completing off-the-job training, this may include different activities and is measured over the course of the apprenticeship.
- ◆ Apprentices will be required to undertake the equivalent of a day's training to meet this funding rule. This could be either attending BCoT, shadowing another department/role, online learning, or manufacturer training and will be fully documented in their portfolio.

## Progression opportunities

- ◆ Upon completion of the apprenticeship, with the transferable skills gained, the apprentice can progress further and apply their knowledge within various engineering roles across many sectors
- ◆ The apprentice may also progress their training further and undertake a higher level engineering apprenticeship, or work towards other relevant qualifications related to their role in the workplace.

## Did you know?

- ◆ An apprentice can be a new or existing employee.
- ◆ Apprenticeships are open to anyone living in England over the age of 16 and not in full-time education.
- ◆ Apprenticeship programmes can go up to degree level.
- ◆ BCoT is one of the largest providers of apprenticeships in the region. We work with large and small employers across all industry sectors.
- ◆ BCoT is in the top 30% of colleges nationally for timely achievement of apprenticeships for all ages and levels - National Achievement Rate Tables 2017/18.

## Get in touch

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