

# Why Work as a... Civil Engineering Technician

A solution for your training needs and career progression

## ROLE OVERVIEW

The broad purpose of the occupation is to support the planning, design, building, management, maintenance or dismantling of the built environment and infrastructure, such as transportation, water and waste management, marine and coastal engineering, water and power supplies. Civil engineering technicians assist in the preparation and production of plans, designs and documentation to relevant codes of practice and industry standards.

## KEY POINTS

- **Level:** 3
- **Duration:** 36 months + End Point Assessment
- **Entry requirements:** You may be required to undertake training in maths and English. See [HERE](#) for more information
- **Career progression:** Upon successful completion you may progress onto Associate Project Manager, Civil Engineering Senior Technician or Project Controls Professional

## KNOWLEDGE REQUIREMENTS

- Appropriate engineering principles, underpinned by appropriate mathematical, scientific and technical knowledge and understanding, relating to civil engineering and the construction process
- Technical drawings, modelling and designs, using computer-based software packages, such as Computer Aided Design (CAD) or Building Information Modelling (BIM), and their use in the sector
- Project management, quality management and assurance systems and continuous improvement as applied to civil engineering
- Understanding of equality, diversity and inclusion, and its impact on civil engineering solutions
- Ethical principles as applied to civil engineering and the security of data and information

## SKILL REQUIREMENTS

- Apply key principles, techniques and methods of data and technical information collection, analysis, and evaluation to support the delivery of civil engineering models, designs, and technical solutions
- Support and contribute to the production or modification of civil engineering technical solutions in accordance with relevant industry standards, regulations, and procedures and codes of practice
- Plan, carry out and manage own work in line with quality assurance, recognising the wider implications to customer needs, and within cost and resource limitations

## BEHAVIOUR REQUIREMENTS

- Works independently, operating in a systematic, proactive and transparent way, knowing their limitations and when to ask for support or escalate
- Applies a structured approach to problem solving with attention to detail, accuracy and diligence
- Maintains professional and ethical working relationships with internal, external and connected stakeholders, recognising the importance of equality, diversity and inclusion

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