



Nottingham Trent
University

School of Architecture, Design and the Built
Environment

Level 6 Civil Engineering Degree Apprenticeship: Guidance for employers

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Details: Specific information to employers and potential apprentices before applying to the Level 6 Civil Engineering Degree Apprenticeship.

Introduction

Attributes for professional qualified membership of the Institution of Civil Engineers

A key requirement of the course is for the apprentice to achieve the attributes linked to the Institution of Civil Engineers (ICE) Incorporated Engineer (IEng) membership criteria. Over the duration of the course, the employer of the apprentice must provide the apprentice with the necessary opportunities at work to achieve each of the following attributes. Progress and subsequent achievement of the attributes are to be registered and monitored via ICE's Initial Professional Development Online recording platform by the employer mentor who is to be approved as a mentor by the ICE or a Supervising Civil Engineer (SCE). Alternatively, an external mentor can be appointed at a cost to the employer. Support to identify potential external approved mentors can be sourced via the ICE and we can assist by making that initial contact if necessary.

Progress through the attributes will form part of the progress meetings between the apprentice, their employer mentor and the training provider (NTU) every 12 weeks (four meetings per year).

The attributes required to be met by the apprentice during their apprenticeship are as follows:

1. Understanding and practical application of engineering

- Maintain and extend knowledge of engineering theory and practice, and how technology assists its application
- Solve engineering problems using a sound theoretical approach, based on evidence, and contribute to continuous improvement
- Identify, review and select techniques, procedures and methods to undertake engineering tasks
- Contribute to the design and development of engineering solutions, implement those solutions, and evaluate their effectiveness in the context of the whole project life cycle
- Exercise sound independent engineering judgement

2. Management and leadership

- Plan the work and resources needed to enable effective implementation of engineering tasks and projects
- Manage the planning and organisation of tasks and resources
- Manage teams or technical specialisms
- Assist others to meet changing technical and managerial needs
- Manage quality processes and contribute to quality improvements

3. Commercial ability

- Manage, prepare and control costs/budgets of engineering tasks or projects
- Use sound knowledge of statutory and commercial frameworks within their own area of responsibility and have an appreciation of other commercial arrangements

4. Health, safety and welfare

- Demonstrate a sound knowledge of legislation, hazards and safe systems of work
- Manage risks
- Manage health, safety and welfare within their own area of responsibility
- Contribute to improvements in health, safety and welfare

5. Sustainable development

- Understand the principles of sustainable development and apply them in work
- Manage engineering activities that contribute to sustainable development and the United Nations' Sustainable Development Goals (UNSDGs)

6. Interpersonal skills and communication

- Communicate well with others at all levels including effective use of English*, orally and in writing
- Discuss ideas and plans competently and with confidence
- Demonstrate effective personal and social skills
- Demonstrate awareness of diversity and inclusion

7. Professional commitment

- Understand and comply with the ICE Code of Conduct
- Understand the ethical issues that may arise in their role and carry out their responsibilities in an ethical manner
- Plan, carry out and record Continuing Professional Development (CPD) necessary to maintain and enhance competence in their own area of practice
- Identify the limits of their personal knowledge and skills
- Engage with ICE activities