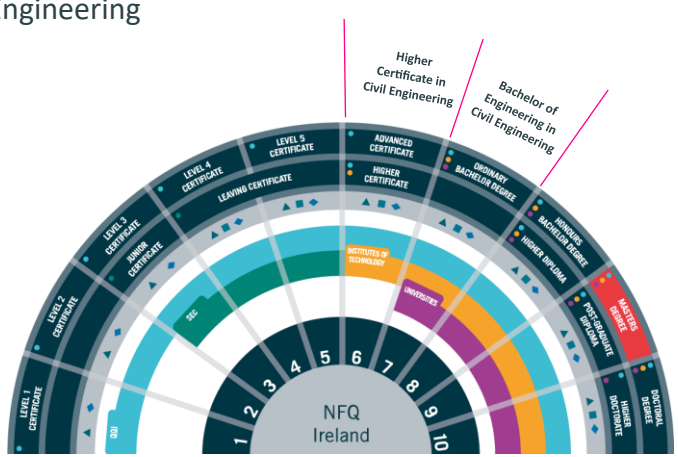
What is the certification?

QQI Level 6 Higher Certificate in Civil Engineering

QQI Level 7 Bachelor of Engineering in Civil Engineering



Where will I work?

Civil engineers are employed across the following sub-sectors of the construction industry:

- **Government agencies and Local Authorities** – The Clients.
- **Consulting Engineers** – Supporting clients in planning, designing and managing construction projects.
- **Civil Engineering Contractors** – constructing the assets e.g. buildings, roads, bridges, energy supplies and utilities networks.
- **Suppliers** – providing specialist materials and products to contractors.

CECA Civil Engineering Contractors Association

CONSTRUCTION INDUSTRY FEDERATION

ACEI

ATU

UISCE ÉIREANN : IRISH WATER

LGMA An Chomhairleacht Bainistíochta Rialtais Áitiúil Local Government Management Agency

TII Bonneagar Iompair Éireann Transport Infrastructure Ireland

More information

If you require further information, please contact:

civilapprenticeships.sligo@atu.ie

GENERATION APPRENTICESHIP

Engineering | www.apprenticeship.ie

New Civil Engineering programmes by Apprenticeship

ENGINEERING

Higher Certificate in Civil Engineering, Level 6

Bachelor of Engineering in Civil Engineering, Level 7

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Overview

Severe shortages of Civil Engineers are being reported by the industry. This affects all levels from Engineering Technician to Chartered Engineers. For Ireland to meet its commitments to Project Ireland 2040, Housing for All, and the Climate Action Plan, the number of people within the profession needs to significantly increase. The following apprenticeships were designed in collaboration with the Civil Engineering Industry to meet this demand.

- Civil Engineering Technician (Level 6)
- Civil Engineer (Level 7)

Why should I choose this apprenticeship?

- Interest in practical and hands on engineering.
- Earn while you Learn Apprenticeship model.
- Excellent employment prospects in a varied and exciting industry.
- Help Ireland achieve its social and environmental commitments.
- Be part of the profession tasked with the creation, improvement, and protection of the environment in a sustainable manner.
- Create infrastructure and spaces that make a tangible difference to people's lives.

Is it for me?

- At least 18 years of age.
- QQI Level 5 (or equivalent).
- An interest in Mathematics and problem solving.
- Pass Grade in Maths at Level 5 (or Equivalent).
- Interest in Civil Engineering and the built environment.
- Solid literacy, verbal, and numeracy skills.
- Ability to plan and prepare work.
- Good analytical and problem-solving skills.
- Good computer skills.
- Good interpersonal skills.
- Safety focused.
- Ability to work independently and as part of a team.

Programme Structure

- These apprenticeships are of either 2 or 3 year duration
  - Higher Certificate – Level 6 – 2 years
  - Bachelor of Engineering – Level 7 – 3 years
- You will be trained and assessed both On and Off the Job.
- Off the Job training will include:
  - 1 week residential (week one)– Project based learning.
  - Lectures delivered online on 1 full day (8hrs) per week.
  - Apprentices will attend campus on 1 additional day (Friday) per month to carry out Labs/ workshops.

Year 1	Year 2	Year 3
Introduction to Engineering and H&S	Professional Practice in Engineering and SDG's	Civil Engineering Management and Finance
• Engineering Graphics and CAD • Mathematics 101 • Engineering Mechanics and physics • Surveying 101 • BIM • Mathematics 102 • Engineering Mechanics and Physics 102 • Surveying 102	• Civil Engineering Materials • Mathematics 201 • Structural Mechanics • Environmental Engineering 201 • Hydraulics 202 • Soil Mechanics and Geology • Structural Design • Environmental Engineering 202	• Structures 301 • Mathematics 301 • Road and Transport Engineering • Geotechnical Engineering 301 • Structures 302 • Hydraulics 302 • Environmental Engineering 302 • Geotechnical Engineering 302