

## PROGRAMME STRUCTURE

These Apprenticeship programmes are earn-and-learn models, designed to develop apprentices' skills and knowledge, building a competent workforce in the sector, and addressing the severe skills shortage being experienced by the industry.

The apprenticeships are open to a wide range of employers, from contractors, consultants, local authorities, specialist suppliers and utilities companies, across all counties in Ireland.

Apprentices will be trained and assessed both on and off the job.

**On the Job** training will be carried out with the support of their industry mentor and will include:

- Apprentice Workplace Logbook
- Case Studies
- Technical Projects
- HR Performance Reviews

**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.

The successful completion of the programme will add value to both the apprentice and the employer. The apprentice will have, at the end of their programme, gained the educational base for professional registration with Engineers Ireland at Associate Engineer Level.

## YEAR 1

### Residential Week

Introduction to Civil Engineering and H&S

TERM  
1 SEPT - DEC

- Engineering Graphics and CAD
- Mathematics 101
- Engineering Mechanics and physics
- Surveying 101

TERM  
2 JAN – MAY

- Building Information Modelling
- Mathematics 102
- Engineering Mechanics and Physics 102
- Surveying 102

TERM  
3 JUNE-AUG

WORK BASED LEARNING

## YEAR 2

### Residential Week

Professional Practice in Engineering and SDG's

TERM  
1 SEPT - DEC

- Civil Engineering Materials
- Mathematics 201
- Structural Mechanics
- Environmental Engineering 201

TERM  
2 JAN – MAY

- Hydraulics 202
- Soil Mechanics and Geology
- Structural Design
- Environmental Engineering 202

TERM  
3 JUNE-AUG

WORK BASED LEARNING