

Foundation Apprenticeships



European Union



The Scottish
Government
Riaghaltas na h-Alba

EUROPE & SCOTLAND
European Regional Development Fund
Investing in a Smart, Sustainable and Inclusive Future

DIGITAL MANUFACTURING

There are 3 main elements to a Foundation Apprenticeship:

- A National Certificate in an Engineering discipline at SCQF Level 6
- 3 Mandatory Units and 2 Optional units of the SVQ Level 2 in Performing Engineering Operations at SCQF Level 5.
- Work-related experience / Industry Challenge equating to 300 hours

National Certificate in Manufacturing Engineering at SCQF Level 6 (G97L 46)

Candidates must complete 3 mandatory units, 5 units from the restricted core section and 4 optional units; below is a suggested selection of units which focus on Digital Manufacturing:

Mandatory Units

Communication Core Skill Unit - F3GB 12; Mathematics: Technician 1 -F3HX 12; Engineering: Applying IT -F5D4 12

Restricted Core Units

CAD for Engineers - F5H5 12; Engineering Manufacturing Processes -F5KC 12; Engineering Materials - F5KD 12; Graphical Engineering Communications -F5JG 12; Industrial CNC Machining - F5HT 12

Optional Units

Robotic and Automated Systems - F5H6 12; Engineering Systems- F5FN 12; Applications of PLC's - F5H0 12; Industrial CNC Part Programming - F5HV 12;

SVQ Level 2 (SCQF Level 5) – Performing Engineering Operations

Candidates must complete the 3 Mandatory units, plus 2 optional units from either Group A or Group B. Units selected from Group B must be delivered and assessed in the Learner's place of work - a total of five units. (Note this is 3 less than required for the full award)

Mandatory Units

- SPEO2/001A: Complying with statutory regulations and organisational safety requirements
- SPEO2/002A: Using and interpreting engineering data and documentation
- SPEO2/003A: Working efficiently and effectively in engineering

Optional Units Group A

- SPEO2/063A Conducting Business Improvement Activities