

Skills
Development
Scotland

FOUNDATION APPRENTICESHIPS IN MECHANICAL ENGINEERING



CITY OF GLASGOW
COLLEGE



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Investing in a Smart, Sustainable and Inclusive Future

Foundation Apprenticeship in Engineering (Mechanical) (SCQF level 6)

What is Engineering (Mechanical)?

The Foundation Apprenticeship (FA) in Engineering aims to give pupils the opportunity to develop the skills and knowledge to enter into a career in Engineering and the Advanced Manufacturing sector and other Engineering related industries. The programme is designed to provide participants with theory, practice and related work experience. The FA in Engineering is aimed at pupils in S5 and S6 and will take 2 years to complete.

Engineering is a challenging, exciting and rewarding career that presents a wealth of opportunities for Scotland's young people to enter a diverse and often unique field of work including research, design and development and manufacturing. The sector continues to expand and grow and the Scottish Government recognises the sector as one of the key economic priority areas for investment.

The sectors include:

- Metals (including Metal Products and Wholesale Metals)
- Mechanical equipment
- Electrical equipment
- Rubber tyres (manufacture and repair)
- Other Transport equipment (other than aerospace, automotive and marine)
- Electronics
- Marine – boat building and ship building and repair
- Aerospace
- Automotive
- Other Engineering activities (including technical testing and analysis)
- Science Industries (R&D in natural sciences and Engineering)

The scope of Engineering also includes other related Energy and Power industries and includes:

- Transmission and Distribution
- Oil & Gas
- Renewables
- Construction
- Energy Management and efficiency
- Emerging Technologies

A recent Semta Labour Market Skills Survey indicates that 30% of all Engineering establishments within Scotland employed apprentices or recognised trainees. Within the Engineering sectors, the proportion employing apprentices or recognised trainees ranged from 19% of electrical equipment and electronics establishments to 57% of other transport equipment establishments.

There are 3 components in the FA in Engineering:

- Full National Certificate in an Engineering discipline at (SCQF level 6)
- 5 Units (3 Mandatory Units and any 2 optional Units) of the *Performing Engineering Operations* SVQ level 2 units
- Work-related experience/Industry Challenge

G97J 46 NC in Mechanical Engineering	<ul style="list-style-type: none">• As per NC Specification
GL6E 22 SVQ in Performing Engineering Operations (part of)	<ul style="list-style-type: none">• Complying with statutory regulations and organisational safety requirements• Using and Interpreting Engineering Data and Documentation• Working efficiently and effectively in engineering• Option unit 1• Option unit 2

The Foundation Apprenticeship will be certificated by SQA. On successful completion of the components of the Foundation Apprenticeship in Engineering, learners will achieve a Joint Qualification Certificate for the Foundation Apprenticeship in Engineering (GL7C 46). They will also receive certification for each of the component parts (NC and SVQ Units).

How does it work?

Location: City of Glasgow College, Riverside Campus
Duration: Two years
Days: Year 1: Tuesday & Thursday afternoons at College
Year 2: Up to two days per week shared between College and Work Placement
Times: TBC

Am I eligible?

Candidates intending to leave school at the end of S6 with **minimum** of one or more Highers incl. Maths and Nat 5's. Essential criteria as follows:

- Achieved or working towards Higher Maths (A-C) by end of S6
- Achieved or working towards Nat 5's (A-C) by end S6
- Candidates must have an interest in developing greater awareness of the industry with a potential desire to pursue as a career
- Candidates must be capable of working at Level 6 (Higher) over S5 and S6

Progression/Job Opportunities

The NC in Engineering will prepare pupils with the practical skills and knowledge needed for access to higher level study or to move into employment. It can also provide credit and progression to the Engineering Modern Apprenticeship Framework at SCQF level 6. The SVQ in Performing Engineering Operations is intended for people starting a career in Engineering or manufacturing, or are employed and are carrying out engineering tasks.

Completion of the Foundation Apprenticeship may allow pupils to seek direct employment within the sector. Participants who go on to complete the Modern Apprenticeship in Engineering will be required to complete a further 3 PEO (Performing Engineering Operations) SVQ units and a further SVQ in an Engineering discipline at SCQF level 6/7) and requisite Core Skills units.

Also, pupils may use their achievement for acceptance and progression on to programmes that lead to higher level awards including HNC (Higher National Certificate) and HND (Higher National Diploma) in Engineering related subjects with Scotland's Colleges. Semta anticipates some universities will consider the FA in Engineering as one component of entry to an Engineering degree or to a graduate level apprenticeship programme, currently under development.

For more information, you can email us at: foundation@glasgowkelvin.ac.uk