National 4 SfW Building Services Engineering (Course Code: C278 74)

SCQF Level 4 (24 Credit Points)

Why study SfW Building Services Engineering?

Building Services Engineers design and install heating, ventilating, air conditioning, refrigeration, plumbing and electrical services for domestic, commercial and industrial buildings.

The course includes safe working practices, energy and the science of building services engineering and also develops transferable employability skills, including:

- time-keeping, appearance, customer care
- self-evaluation skills
- positive attitude to learning
- flexible approaches to solving problems
- adaptability and positive attitude to change
- confidence to set goals, reflect and learn from experience
- skills to become effective job-seekers and employees.

Career Pathways

To see what career areas this subject could lead to and the routes to get there, download and view these career pathways:

Construction

Engineering

Property and Facilities

What do I need to get in?

Entry is at the discretion of the school or college, however, you would normally be expected to have attained Core Skills at SCQF Level 3 or equivalent.

What will I study?

The course is made up of **five** compulsory units.

- Introduction to Safe Working Practices (6 SCQF credit points)
- Introduction to Energy (6 SCQF credit points)
- Introduction to Science (6 SCQF credit points)
- An Introduction (3 SCQF credit points)
- Employability Skills (3 SCQF credit points)

You will learn about:

- basic building systems, including plumbing, electrical, heating and ventilation, refrigeration and air conditioning
- health and safety requirements
- the main types of energy, energy conservation and how this applies to the building services industry
- the principles of heat, mechanical and electrical applications used within building services
- work practices and attitudes that enhance employability.

How will I be assessed?

Assessment will be based on a range of practical workshop activities in real or simulated workplace settings. Tutors will observe and keep records of your work. Some assessment may be done online using an e-portfolio system.

Study Materials

What can I go on to next?

You may be able to progress to:

Employment /Training

- A Modern Apprenticeship leading to an SVQ at SCQF Levels 5 to 6 in a related area such as construction.

Further/Higher Education

- A one year full time NPA, NC or NQ in Building Services Engineering or construction such as Bricklaying, Carpentry and Joinery, Construction Foundation Taster, Construction Skills or General Building at a local college of further education.

Further study, training or employment in:

- Construction
- Engineering
- Property and Facilities