

National 5 SfW Energy (Course Code: C258 75)

SCQF Level 5 (24 Credit Points)

Why study SfW Energy?

Scotland has the oil and gas fields of the North Sea, and plenty of potential for wind, wave, and even solar power! Thanks to our ever-increasing need for more energy, and the need to find more environmentally-friendly ways of producing it, this sector offers good prospects for young people with the right skills. There will be a demand for highly skilled craft and technician apprentices, and graduates, in many types of engineering, as well as a growing demand for skilled plumbers.

The Energy sector includes oil and gas, renewable energies and power generation and transmission.

Energy offers good opportunities for those who enjoy:

- using their hands
- learning practical and technical skills
- solving problems.

What do I need to get in?

Entry is at the discretion of the school.

What will I study?

This course will introduce you to the different energy industries in the UK and help you to develop relevant practical and employability skills.

The course is made up of four compulsory units, taking a total of 140 hours, and one 20-hour optional unit.

The compulsory units are:

- An Introduction
- Domestic Wind Turbine Systems
- Domestic Solar Hot Water Systems
- Employability and Careers

The optional units are

- Energy and the Individual or Oil/Gas Extraction or Conventional Technologies and the Grid

You will learn about:

- where we get our energy from, and the energy systems and processes that we use to make different forms of energy
- generating heat from solar energy
- assembling a small solar panel
- career opportunities in the energy sector
- designing and building small wind turbines
- your own carbon footprint and how to reduce it
- how oil and gas are created and extracted
- traditional energy generation plants and their impact on the environment

How will I be assessed?

Assessment will be based on a range of practical activities. Teachers will observe and keep records of your work.