

# Energy — Power Generation & Renewables



The Scottish Government is committed to generating 20% of total Scottish energy use from renewable sources such as solar, wind, wave or tidal by the year 2020.

Scotland has a wealth of natural resources — solar, wind, wave and tidal — to meet this target but there is one resource that we will need above all if we are to achieve it. A trained and highly skilled workforce.

That's where SQA qualifications come in. SQA provide qualifications in the subjects employers within the industry need. We provide a wide range of qualifications, at most levels of the SCQF, in the key skills areas of Science, Technology, Engineering and Mathematics (STEM). Our engineering qualifications cover engineering disciplines where the industry is facing skills shortages.

All of our qualifications recognise learner achievement, demonstrate competence to work in the sector, and have been developed in close association with the industry.



# Energy –

## Power Generation & Renewables Qualifications

Qualification Name	SCQF level	Qualification Name	SCQF level	Qualification Name	SCQF level
<b>NC</b>		Domestic Air Source Heat Pumps	6	PDA - Computer Aided Draughting and Design	7
NC Electrical Engineering	5	Domestic Woody Biomass Heating Systems	6	PDA - Engineering Practice: Engineering Maintenance	7
NC Electronic Engineering	5	Domestic Rainwater Harvesting Systems	6	PDA - Engineering Practice: Electrical Engineering	7
NC Engineering Practice	5	Domestic Greywater Recycling Systems	6	PDA - Renewable Energy Systems	8
NC Engineering Systems	5	Domestic Mechanical Heat Recovery Ventilation Systems	6	<b>SVQ</b>	
NC Fabrication and Welding	5	Photovoltaic (PV) Arrays	6	SVQ 1 Performing Engineering Operations	4
NC Manufacturing Engineering	5	Domestic Wind Systems	6	SVQ 2 Performing Engineering Operations	5
NC Mechanical Maintenance Engineering	5	Domestic Hydro Generation Systems	6	SVQ 2 Performing Manufacturing Operations	5
NC Computer Aided Design & Technology	6	Domestic Fuel Cell Technology Systems	6	SVQ 3 Fabrication and Welding Engineering (Manual Welding)	6
NC Electrical Engineering	6	Sustainable Energy: Power Generation and Use	6	SVQ 3 Fabrication and Welding Engineering (Pipe and Tube Fabrication)	6
NC Electronic Engineering	6	<b>HNC</b>		SVQ 3 Fabrication and Welding Engineering (Platworking 3mm upwards)	6
NC Engineering Systems	6	HNC - Computer Aided Draughting and Design	7	SVQ 3 Fabrication and Welding Engineering (Welding Machine Setting and Operating)	6
NC Fabrication and Welding	6	HNC - Contracting Management	7	<b>HND</b>	
NC Manufacturing Engineering	6	HNC - Electrical Engineering	7	HND - Computer Aided Draughting and Design (CADD)	8
NC Measurement and Control Engineering	6	HNC - Electronics	7	HND - Electrical Engineering	8
NC Mechanical Engineering	6	HNC - Engineering Practice	7	HND - Electronics	8
<b>Skills for Work</b>		HNC - Engineering Systems	7	HND - Engineering Systems	8
Skills for Work Energy – Intermediate 2	5	HNC - Fabrication, Welding and Inspection	7	HND - Manufacturing Engineering	8
<b>Certificate in</b>		HNC - Manufacturing Engineering	7	HND - Measurement and control	8
Certificate in - Environmental Tech Syst (Installation)	6	HNC - Measurement and control	7	HND - Mechanical Engineering	8
Certificate in - Environmental Tech Syst (Inst, Service)	6	HNC - Mechanical Engineering	7	HND - Mechatronics	8
<b>Units</b>		HNC - Mechatronics	7	<b>PDA</b>	
Domestic Solar Hot Water Systems	6	<b>PDA</b>		PDA - Engineering Practice: Fabrication and Welding	7
Domestic Underfloor Heating Systems	6	PDA - Engineering Practice: Engineering Manufacture	7		
Domestic Combined Heat and Power Pumps	6				



Business Development Team

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