Green Skills Academy Prospectus
Take your first step. Find a course.
Making real changes...

Dumfries and Galloway College is a leading voice in green skills development to help tackle climate change and are dedicated to making our ideas a reality that will benefit students, staff and the wider region – both in the facilities we offer at our campuses and in our approach to educating the next generation.

The college was recently recognised by winning two prestigious 2021 Green Gown Awards in Benefitting Society Category for a small institution and Campus of the Future Award.

Take a look at our award winning entry below:

Get one step ahead and develop the skills you need to build your future or change your career for a better, greener tomorrow.
Why green energy is important

Green energy will provide our region with reliable power supplies and help to diversify our fuel sources. Green energy will help conserve our nation’s natural resources.

This will help to reduce our reliance on fossil fuels and reduce our carbon footprint to help us on the pathway to sustainability as we come to treat our environment with the respect it deserves.

Taking action on climate change matters is of critical importance to us all. By taking action now we can all help create a cleaner, healthier and safer place for now and for future generations. Nationally, Scotland has an ambitious target of being a net zero nation by 2045.

To see how this will be achieved, visit Zeronation.scot:

www.zeronation.scot

Take a look at our Climate Change Action Plan for insight into the colleges goals for working towards net zero.
Types of green energy

Green energy will provide our region with reliable power supplies and help to diversify our fuel sources.

**Solar**
Solar energy seeks to harvest the natural power of the sun’s rays to power our infrastructure.

**Hydro**
One of the most reliable and commercially viable energy sources, allowing electricity to be stored to use when demand hits a peak.

**Wind**
Wind turbines feed electricity directly into the national grid and benefit the whole country.

**Geothermal**
Making use of the natural heat stored below the earth’s surface, geothermal energy can be used to heat homes directly or to generate electricity.

**Biomass**
Making use of the natural heat stored below the earth’s surface, geothermal energy can be used to heat homes directly or to.
What we’re doing for green energy

Take a look at our first-class facilities to see our green skills learning environments.

Dumfries STEM Hub Walkthrough ➤ Stranraer Engineering STEM Hub Walkthrough ➤

Below: Some of our green energy facilities located at our Dumfries campus.
Green Skills Courses

At Dumfries and Galloway College, we recognise green energy is the future and we offer a range of education and training opportunities to allow you to learn new skills, upskill your existing knowledge or reskill in this area to help you achieve a more sustainable future and career path.

Construction | Built Environment  Page 07

Engineering | Motor Vehicle  Page 010

Commercial | Business  Page 017
Construction and the Built Environment

Construction Skills @SCQF Level 4 (C&G) ↓

If you are interested in starting a career in the construction industry but are not sure what particular trade area you want to pursue then this is the course for you. This is an exciting opportunity to take that first step towards a career that is both satisfying and rewarding.

Apply Now – Dumfries  Apply Now – Stranraer

Construction: Multi Trade NPA @SCQF Level 5 ↓

This qualification allows candidates to learn, develop and practice the skills required for employment and/or career progression in construction. This can be an introductory course or progression from a previous course such as the City and Guilds Level 4 Construction Skills Course (or equivalent).

The course is suitable for school leavers or adults who have a real interest in construction craft operations across a range of disciplines, each one having a balance of practical and knowledge activities required to develop the necessary skills and techniques for the industry. This course is recognised by industry as a pre-apprentice programme and will enhance the learner’s opportunities in finding employment in the construction industry.

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Diploma in Bench Joinery @ SCQF Level 5 (C&G)

This is a nationally-recognised course covering proper use of tools and equipment. The course covers several practical based units such as; wood working machine use, jointing techniques, door construction, stair construction and theory units about the construction industry.

The practical element of the course, making a door and making a stair, accounts for the majority of the time spent at college and the remainder is taken up by classroom-based tasks such as: basic construction drawing skills, health and safety, scaffolding, construction technologies and mandatory core skills.

It is hoped that the course will enhance the student’s chance of getting an employer to sponsor them for progression to Carpentry and Joinery SVQ Level 3, which is the first year of the apprenticeship.

The course is industry recognised as a pre-apprenticeship course and will enhance the learner’s opportunities in finding employment in the construction industry.

Certificate in Preparation and Application of Paint Systems (NQ) @ SCQF Level 5 (C&G)

This is a nationally-recognised course covering proper use of tools and equipment. The course covers several practical based units such as: preparation, painting, wall paper hanging, scaffolding and theory units about the construction industry. The practical element of the course accounts for the majority of the time spent at college and the remainder is taken up by classroom-based tasks such as:
basic construction drawing skills, health and safety, scaffolding, construction technologies and mandatory core skills.

It is hoped that the course will enhance the student’s chance of getting an employer to sponsor them for progression to Painting and Decorating SVQ Level 3, which is the first year of the apprenticeship. The course is industry recognised as a pre-apprenticeship course and will enhance the learner’s opportunities in finding employment in the construction industry.

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Plumbing NQ @ SCQF Level 5

This course provides a good introduction to working as a plumber as well as including necessary core skills that employers value such as: numeracy, communications and Information Communications Technology (ICT). You will gain an understanding of some of the basic installation and servicing principles required in the plumbing industry and get an insight into the working environment in which a plumber might be expected to operate.

It is hoped that the course will enhance the student’s chance of getting an employer to sponsor them for progression to Domestic Plumbing and Heating at SCQF level 7, which is the first year of the apprenticeship. Time is also spent learning about the wider role of the plumber and how he/she interacts with clients, other trades and professionals from the construction industry.

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Engineering and Motor Vehicle

Renewable Energy Practical Skills

This is a College Academy Course

Only Suitable for school students looking for a stepping stone into the renewable industry or onto a higher level course at the college.

This exciting new hands on award in Renewable Energy is designed to incorporate alternative energy systems installed in the College’s new Green Energy Centre and is designed to allow candidates to learn the theory behind alternative energy production and storage as well as to learn the skills required to design, build and evaluate these systems.

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Introduction to Engineering and Renewable Energy (NQ) @ SCQF Level 7

This is a broad based engineering course that covers all areas of engineering. The course contains units on Electrical Engineering, Motor Vehicle, Fabrication and Welding & Mechanical Engineering as well as a project on Renewable Engineering. This will give the learner the opportunity to access a wide variety of subjects and complete practical tasks in all areas.
It will enable the learner to fully embrace engineering skills that are found in modern industry and feel confident in helping with career path development.

This programme will develop your skills confidence and awareness of engineering practices and skills. It will also aim to develop your study skills as a learner. This is a broad based engineering course that will give the learner the opportunity to access a wide variety of courses. It will enable the learner to fully embrace engineering skills that are currently found in the industry.

Electrical Engineering NC @ SCQF Level 5

This is a nationally recognised award in electrical engineering. It should be viewed as the first year of a two year course to allow you to obtain the SCQF level 6 National Certificate Programme.

If you are looking to be employed within the electrical engineering sector as well as gain skills and knowledge of the renewables industry then this is an excellent starting point as a stepping stone towards being a technician or an electrical apprentice.
Electrical Engineering NC @ SCQF Level 6

This is a nationally recognised award in electrical engineering. This course satisfies one key element of the Modern Apprenticeship framework for engineering. It provides an excellent and thorough grounding into the disciplines that relate to electrical engineering and introduces the concept of domestic renewable systems. If you are looking to be employed within the electrical engineering sector or move towards the renewables industry then this is an excellent qualification to support you becoming a technician or apprentice.

The course also includes Performing Engineering Operations (PEO) EAL qualification, recognised by industry as the first year of a Modern Apprenticeship in engineering.

Engineering Systems and Wind Turbine Technician Training NC @ SCQF Level 6

This award is designed for school leavers with acceptable qualifications, progressing students from SCQF level 5 or 6 courses, or mature learners who upon completion wish to enter the wind turbine maintenance sector. This highly successful programme will develop your skills, confidence and awareness of all the inter-related technologies both mechanical and electrical to allow you to develop a career within the Windfarm/Turbine industry. It will also aim to develop your study skills as a learner. This is a focused program devised by employers, the Energy Skills Partnership and associated colleges.
Foundation Apprenticeship in Engineering @ SCQF Level 6

**Only Suitable for school students** looking for a stepping stone into the renewable industry or onto a higher level course at the college.

Engineers bring ideas to life. They design, create, test and improve all sorts of products and processes. From James Watt’s steam engine to Andy Scott’s Kelpies, Scotland is great at engineering. It’s an industry offering careers in a range of sectors including space, aviation, transport, medicine, technology and fashion. Citizenship and Personal, Social, Health and Economic (PHSE) education.

**Transport Maintenance @ SCQF Level 4 (IMI)**

This course is an excellent stepping stone into the motor vehicle industry. This qualification is designed as a pre-apprentice course and covers most of the basic technical elements required within the motor vehicle repair industry.

The course provides essential knowledge for service technicians working on light vehicles (cars and vans) in all garage types.

This course is a mix of hands on practical activities and theory allowing candidates to gain technical knowledge and valuable skills required for employment in the motor vehicle industry.
Light Vehicle Maintenance and Repair Principles
@ SCQF Level 5 (IMI)

This full-time diploma course has been developed to provide a progression from the IMI Certificate in Vehicle Maintenance.

The programme also offers a standardised approach to learning and assessment of the underpinning knowledge required for the SVQ Level 2 Modern Apprenticeship and satisfies all the requirements of the Motor Industry Training Councils (MITC) and national standards. The diploma course offers full-time learners an enhanced knowledge and understanding of light vehicle maintenance and repair, building on the prior learning from the previous year of the IMIAL Certificate course.
Commercial and Business

BPEC Heat Pump Systems

BPEC Heat Pump NOS Mapped, is designed to give installers the skills and knowledge required to correctly install heat pumps. This course has been designed with the intention of meeting the requirements of the National Occupational Standards.

This qualification is also recognised as a demonstration of competence for the Microgeneration Certification Scheme (MCS).

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BPEC Solid Biomass

BPEC Solid Biomass NOS Mapped training course can be used towards registration on the range of schemes available including Competent Persons registration (CPS), HETAS, APHC, NAPIT, NICEIC, and the Microgeneration Scheme (MCS).

This course incorporates both core solid fuel and biomass heating systems and is aimed at qualified heating engineers who wish to install domestic solid wood-based biomass heating systems.

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BPEC Solar Domestic Hot water Systems

BPEC Solar Thermal Systems NOS Mapped, has been mapped against the Qualifications and Credit Framework (QCF) and is a requirement of the minimum technical competency (MTC) document for solar installers and the certificate is recognised by all bodies offering routes to the Microgeneration Certification Scheme (MCS) as evidence for suitable training.

At the end of this course, candidates will be able to select the most appropriate solar systems for a specific building and become a competent person to install and maintain any of the common systems in the UK.

Certificates are valid for 5 years

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BPEC Gas Foundation

Designed for candidates who want a career in the gas industry - this course will allow Category 2 or 3 applicants for Gas Assessment to be eligible for assessment.

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Global Wind Organisation (GWO): Basic Technical Training

Dumfries and Galloway College have gained Global Wind Organisation (GWO) accreditation to deliver Basic Technical Training (BTT). Those working, or looking to work in the renewable energy sector will soon be required to gain this qualification.

The GWO is an association of Wind Turbine owners and manufacturers with the aim of supporting an injury-free work environment in the wind industry. The BTT is part of the GWO portfolio, which sets the standards for training in the global wind energy and renewables industry.

This course is for wind industry personnel who have no/limited experience of electrical, mechanical or hydraulic systems.

This course is delivered by Industry experts.

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Learning levels, awards and student support

In the following pages you will find useful information to help you navigate the learning levels and awards outlined in this prospectus.

As soon as you choose to study with Dumfries and Galloway College, you have a wealth of support options available to you. Our friendly support teams are always on standby from Admissions to our Student Advisors to help you succeed with your learning journey.
Throughout this prospectus, you will see the SCQF level and credit points awarded to each programme of study, if it is on the Framework. This may help you decide which learning programme is most suitable for you at this stage in your lifelong learning journey.

The SCQF can:

» help you decide how you progress in your learning;
» help you understand qualifications you are not familiar with;
» help employers understand different types of qualifications and help with the development of your skills;
» help colleges and universities identify the level that has been studied in a particular subject and make it easier to transfer credit points between different learning programmes;
» provide recognition of other areas of your learning that may contribute to your personal development and your goals for the future.

All Scottish colleges and universities are now using SCQF levels and credit points to describe their courses, but only if these have been credit rated into the Framework. Some employers are also using SCQF levels instead of, or as well as, types of qualification when they advertise jobs. The SCQF can also assist you to compare your qualifications with the rest of the UK and Europe. This is especially helpful if you are planning to study or work outside Scotland. A leaflet called Qualifications Can Cross Boundaries is available to download from the Resources page of the SCQF website.
Throughout the course sections of this prospectus you will see abbreviated qualifications outlined next to each course title:

**Construction: Multi Trade NPA @ SCQF Level 5**

**NPA – National Progression Award**

Small flexible group awards that are linked to National Occupational Standards / other professional or trade standards. Developed to assess and certificate a defined set of skills in a specialist vocational area. Each NPA varies in terms of credit points.

**NC – National Certificates**

National Certificates (NCs) at SCQF Levels:

- 2–3 made up of units with a total credit value of 72 Credit Points.
- 4–6 made up of units with a total credit value of 72 Credit Points.

They provide learners with the skills and knowledge that employers look for and provide articulation routes to Higher National (HN) programmes.

**SVQ – Scottish Vocational Qualifications**

Recognise the skills and knowledge needed in employment, i.e. job competence. Successful completion of an SVQ provides clear evidence that the learner works to nationally recognised standards. Each unit defines an aspect of a job / work-role and outlines what it
is to be fully competent in that aspect of the job. To be awarded a full SVQ, learners must complete each of the units which make up the award by demonstrating that they are competent in that aspect of the job. Some SVQs or SVQ units are incorporated into other awards / offerings including HNCs and Modern Apprenticeships and some can also be done as independent units.

**HNC - Higher National Certificate**

This is designed to provide learners with the practical skills and theory based knowledge that employers seek. HNC’s provide articulation to degree programmes, with advanced entry into second year. Some HNC’s exempt learners from taking all or part of the professional examinations needed to gain membership / entry of the associated professional body.

The HNC is designed to SCQF Level 7 and is allocated 96 SCQF points.

For further information on learning levels and awards, try SCQF’s interactive framework.
As a Dumfries & Galloway College student you have a number of services available to support and help you throughout your course.

This can be anything from funding, education support or childcare; to accessing the library, our digital services or using the learning zone.

You can also talk to our student advisors who will be able to help you with any query you may have, no question is a silly question! Our aim is to provide you with a quality service so that on successful completion of your course or training, you will have a range of skills and the knowledge required by industry, commerce or to progress to further study.
Admissions

If you are unsure of which course is best to apply for, or how to apply – don’t forget we have a very knowledgeable and helpful Admissions team here at the college ready to help you.

If you know the subject area you are interested in but are unsure of which level of course would suit you best, the team can advise you based on the qualifications you already have or are working towards. The team are also able to help you look at your progression routes and how you can look at where to find the best progression route for yourself – if you have already chosen a set career, this may involve going to Skills Development Scotland, an employer in your chosen industry or the university you wish to attend to find out what they advise as the best route for you.

Virtual Reception

You can also use our live chat facility on the website to talk to the team during their available hours:

**Mon – Fri 10am to 3pm.**

Just head onto the course search page on the website and in the bottom right corner of the page, you will see the live chat icon to click.
Sending in your application is the first step to get onto your course and it’s crucial to get it right – first impressions count!

Before applying

» Remember to read all the information about your course’s most important entry requirements that you may need for a successful application. This will also help you write a personal statement as part of your application.

» Make sure you have your own personal email address or Facebook account, this will be used to contact you for any information including enrolment, funding, and interviews.

» Have supporting information such as documentation e.g. qualifications convenient to you before applying for your course.

» Places are limited on courses so you should apply as soon as possible in case you miss the opportunity to get on your chosen course.

How to apply

If you have already started an application, you will have received an email with a link to log in and resume your application.

Please check all your email folders including the junk folder.

If you have not started here are 5 easy steps in completing your application.

1. Pick your course

When you find the right course click on the box for your campus. This will take you to the course description, minimum entry requirement, and what prospects it may give you. You can read all the information to help you write a personal statement letter.
2. Get your application form
At the top of your webpage with your chosen course, there will be a button “Apply Now”. This will direct you towards the login for our online applications.

3. Create your account
If you have applied before please log in using your existing account.

If this is the first time applying, you will need to create an account on our online system. You will need this account to process your application form and contact you about its progress.

You will need an email address or Facebook Account. Click the button “Create New User Account” and enter your details.

You will need to choose a PIN number now too or click on the Facebook icon and login into your Facebook account. You will have to give permission for Dumfries and Galloway College to access your information.

Once you have chosen an option you will be asked to provide some security details.

Click “Proceed” when you are done.

4. Complete your application
Before you start filling in your application form, you will see a short summary page. Check that all your information is correct including the course details at the top of the page.

Once everything is correct, click on the “Proceed” button to begin filling in your application form online.

Check our handy Applications Guide for further hints and tips on how to make the best of your application.
Stay one step ahead.

Dumfries and Galloway College

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