

SCIENCE, TECHNOLOGY, ENGINEERING AND CONSTRUCTION



The construction industry is vitally important to the Scottish Economy. It employs 250,000 people and is worth approximately £10 billion to Scotland's economy.

Our specialist Construction, Engineering and Renewable Centre is centrally located in Lochgilphead and houses workshops and equipment which allows students to get hands on practical training from industry experts..



+ 8%

of Argyll
businesses
are in the
construction sector.

UK average salary for
construction operatives

£24,960

UK average salary for
mechanical engineers

£49,400



Currently employed in Scotland



+8%

9 year jobs
forecast for Argyll



7,811

Mechanical
engineers



10,475

Construction
operatives

No. of credits

18

SCQF

Level: 5

Locations

Campbeltown, Rothesay,
and Construction,
Engineering and
Renewables Centre in
Lochgilphead

What next

Modern Apprenticeship in a
range of trades

The construction industry offers a wide range of apprenticeship and career opportunities. This National Progression Award offers an introduction to a number of key trades and industry practices to help you progress to employment or further study, and will prepare you to sit the Health, Safety and Environment test which is a requirement for applying for a CSCS card.

This is a hands-on course which will give you practical experience of bricklaying, painting and decorating, carpentry and joinery, plumbing, plasterwork, and roof tiling, with health and safety, numeracy and IT also built in to give you the skills needed to progress within the modern construction industry.

Suitable candidates may also have the opportunity of a construction-related work placement during the course.

**Study and Assessment Methods**

This full time course will be delivered in our dedicated workshops. Each unit is assessed individually by the tutors in the workshop through observation and completion of practical models and course work.

Entry Requirements

Applicants should have a keen interest in pursuing a career in the construction industry. Previous completion of the Skills for Work Construction Crafts courses would be beneficial but is not essential.

Career Options

Apprentice or labourer.



Designed to provide apprentice carpenters and joiners with in-depth trade training specified by the Construction Industry Training Board, this course also incorporates the PDA Level 6 in Carpentry and Joinery.

This course will give you the basic knowledge and skills necessary to become a tradesperson and to work as part of a construction team.

You will learn how to install first and second fixing components, set up and use transportable cutting and shaping machines, erect structural carcassing components and roof, door and stair construction.

Study and Assessment Methods

You will study on a block release basis over the course of four years. Practical delivery takes place in the joinery workshop at the college's Construction, Engineering and Renewables Centre (CERC) in Lochgilphead. You will also undertake classroom - based theory work.

Each unit is assessed individually by the tutors in the workshop and external area through observation and completion of practical models and course work.

Entry Requirements

Entry will be arranged through CITB. You must have employment with a construction firm who will sponsor your apprenticeship training.

Career Options

This course is a component part of the Carpentry and Joinery Modern Apprenticeship.

SCQF

Level: 6

Locations

Lochgilphead – CERC

What next

This course is a component part of the Carpentry and Joinery Modern Apprenticeship.



CARPENTRY & JOINERY

ADVANCED CRAFT PDA

No. of credits

8

SCQF

Level: 7

Locations

Lochgilphead – CERC

What next

HNC Construction Management

Units will include Complex Pitched Roof Construction, Specialist Doors, Complex Timber Stair Construction, Workshop and Site Setting Out, Sustainable Technology and Technical Communications.

Study and

Assessment Methods

You will study on a block release basis which entails 10 weeks over the course of one year.

Practical delivery takes place in the joinery workshop at the college's Construction, Engineering and Renewables Centre (CERC) in Lochgilphead. You will also undertake classroom- based theory work.

Each unit is assessed individually and this may take a number of forms, including question papers, case studies, assignments, practical tasks with checklists, and other practical activities when working in teams.

Entry Requirements

Prospective students will have completed a relevant PDA (Level 6) or will have gained an equivalent level of industrial experience. All potential students must be in full-time employment.

Career Options

Site supervisor

The PDA Level 7 in Carpentry and Joinery will provide you with the opportunity to further develop the skills you have already gained through the SVQ programme. It will provide you with invaluable practical experience and is specifically designed for those who aspire to other professions in Construction outside the role of a developed craftsman, such as supervision and management.



CONSTRUCTION MANAGEMENT HNC



No. of credits

12

SCQF

Level: 7

Locations

Any Argyll College centre



If you aspire to enter the construction industry at a supervisory level, the HNC Construction Management will give you the knowledge and skills to achieve this.

The construction industry is one of the most diverse and interesting fields to work in, with careers available including: architectural technology; construction management; quantity surveying; and facility management.

This course is the ideal stepping-stone into a variety of HND Construction courses.

Study and Assessment Methods

You will study part-time evening classes by video conference over two years.

Entry Requirements

1 Scottish Higher at grade C or above, preferably Maths, Graphic Communication or a science subject

OR

1 A level at grade D or above, preferably Maths, Physics or Graphical Communication

OR

NC/NQ in a construction-related subject

Prospective students without the standard entry requirements as listed above are encouraged to apply, appropriate construction related experience will be taken into consideration

Career Options:

Trainee construction manager; construction planner; or site-based management assistant.

PERFORMING ENGINEERING OPERATIONS SVQ

SCQF

Level: 5

Locations

Lochgilthead – CERC

What next

This course is a pre-requisite for a number of Modern Apprenticeships in Engineering.

This hands-on course is designed to prepare you for employment or a Modern Apprenticeship in Engineering. You will develop a wide range of skills in engineering practice while gaining knowledge and an understanding of health and safety and employability issues.

Suitable candidates may also have the opportunity of an engineering-related work placement during the course.

Study and

Assessment Methods

This full time course is delivered in the engineering workshop at the college's Construction, Engineering and Renewables Centre (CERC) in Lochgilthead. You will also undertake classroom-based theory work.

Each unit is assessed individually by the tutors in the workshop and external area through observation and completion of practical models and course work.



Entry Requirements

You should have a keen interest in pursuing a career in the engineering sector. Previous completion of the Skills for Work Engineering Skills courses would be beneficial but is not essential.

Career Options

Trainee engineer

The NC Engineering Systems programme will give you the academic skills to progress to Higher Education study in engineering.

You will learn the principles of engineering in mechanical and electrical disciplines and you will gain some experience and knowledge of a range of process operations and technologies.

Study and Assessment Methods

You will study by way of face-to-face lectures and tutorials in the classroom, and practical workshop sessions.

Each unit is assessed by the tutors through a combination of practical and theoretical activities.



Entry Requirements

One National 5 or equivalent in Maths, Physics, Technical Studies or Skills for Work Engineering, or have passed NC Engineering Systems at SCQF level 5.

Prospective students without the standard entry requirements as listed above are encouraged to apply, appropriate industry related experience will be taken into consideration.

You may be required to attend an interview.

Career Options

Oil and gas, on and off-shore renewables and manufacturing.

No. of credits

12

SCQF

Level: 6

Locations

Lochgilthead – CERC

What next

HNC Engineering Systems, UHI's Engineering degree programme, including BEng (Hons) Electrical and Electronic Engineering, BEng (Hons) Electrical and Mechanical Engineering, BEng (Hons) Mechanical Engineering or BEng (Hons) Energy Engineering.



ENGINEERING SYSTEMS HNC

No. of credits

15

SCQF

Level: 7

Locations

Any Argyll College centre plus Lochgilphead (CERC) for practical activities

What next

You may be eligible for entry into the second year of UHI's Engineering Degree Programme, including BEng (Hons) Electrical and Electronic Engineering, BEng (Hons) Electrical and Mechanical Engineering, BEng (Hons) Mechanical Engineering or BEng (Hons) Energy Engineering.



The HNC Engineering Systems will give you the training to be a technician in design, research, development and service support activities in engineering, manufacturing and consultancy.

Specifically designed to meet the needs of employers, this course will enable you to will study both mechanical and electrical engineering, and is available either full time or part time to suit your personal and professional circumstances.

Study and**Assessment Methods**

You will study by way of face-to-face lectures and tutorials in the classroom, these may be delivered by video conference in some centres, and practical workshop sessions delivered during block placement weeks in our specialist Construction, Engineering and Renewables Centre (CERC) in Lochgilphead.

Units are assessed by the tutors through a combination of practical and theoretical activities.

Entry Requirements

One Scottish Higher at grade C or above in Maths or Physics, one A level at grade D or above in Maths or Physics, or NC/NQ Engineering at level 6 or equivalent. Prospective students without the standard entry requirements as listed above are encouraged to apply, appropriate industry related experience will be taken into consideration.

You may be required to attend an interview.

Career Options

Manufacturing, offshore engineering, renewables sector or engineering design.

The HNC Applied Sciences is a wide-ranging course providing a strong base for progression to higher level scientific study.

You will study a range of topics including Biology, Chemistry, Ecology and Microbiology and you will gain a range of practical skills and experience in science disciplines. Laboratory-based practical sessions will take place at the Scottish Association for Marine Science at Dunstaffnage, Oban.

Some of the topics you'll cover include Laboratory Skills for Science Industries, Cell Biology, Microbiology, Human Body Structure and Function, Ecology and Ecosystems and DNA and Genetics.

Study and Assessment Methods

You will learn by way of face-to-face lectures and tutorials in the classroom, and laboratory-based practical sessions. The course will include continuous assessment of lab and course work.

Entry Requirements

One Scottish Higher at grade C or above or one A-level at grade D or above. The Higher or A level should be in a science related subject, preferably Biology, Chemistry or Physics. You should also have a minimum credit level Standard Grade or National 5 Chemistry or Biology or equivalent.

Alternatively an NC or NQ in a Science subject such as NQ Access to Science or NC Applied Sciences.

No. of credits

15

SCQF

Level: 7

Locations

Oban

What next

BSc Applied Science BSc

Marine Science BSc

Environmental Sciences.

Prospective students without the standard entry requirements as listed above are encouraged to apply, relevant work experience will be taken into consideration.

Career Options

Environmental health professional, laboratory technician, pharmaceutical technician.

