

FIND YOUR FUTURE HERE



University of the Highlands and Islands Orkney College

In this 8-week series we're introducing you to the wide range of expertise and options available at Orkney College, and this week we're highlighting our Engineering, Maritime and Short Course departments.



ENGINEERING

The Engineering Department is relatively new at Orkney College and spans both general Engineering and Maritime. Our engineering courses can pave the way for a career in a variety of engineering jobs, including manufacturing, offshore engineering, the developing renewables sector and engineering design.

COURSES

National Certificate in Mechanical Engineering. SCQF level 6.

Full time at Orkney College.

Attendance normally up to three days per week with additional home study.

Entry requirements:

As a minimum you should have National 5 Maths at B or above and, preferably, be studying Maths at higher.

English Nat 5 is also required and a nat 5 or higher in Physics or Engineering Science is desirable.

About the Course:

The course is a good springboard to an HNC or Degree level study in Engineering, or as a background to an apprenticeship. The course aims to train you to make engineering decisions and assessments when working on mechanical equipment. For example, you will learn how to calculate the strength of a support beam, or the right sized motor for a piece of machinery. You will learn how to assess engineering systems, approach maintenance tasks and install components. A Fitter fits a component, an Engineer decides how big, strong or powerful that component needs to be. This course gets you on the road to start making those sorts of decisions.

As a result, there is a lot of maths and calculation which means that over half of the course is spent in the classroom, with the rest of the time being in the workshop. The individual modules are listed below; these were chosen for Orkney College by a group of local engineering companies and organisations.

Course Content:

- Plant Installation
- Mathematics: Technician 1
- Statics
- Pneumatics and Hydraulics
- Engineering Systems
- Engineering Materials
- Engineering: Applying Information Technology
- Engineering Dynamics: An introduction.
- Thermo-fluids
- Strength of Materials
- Plant Maintenance Practice
- Electrical Plant Maintenance

HNC Engineering Systems also available as a part-time networked course.

Student Experience

"As someone with a fascination with Engineering and how and why things work, I jumped at the opportunity to apply for the NC mechanical engineering course offered at the Orkney College UHI. It is an excellent entry level engineering course that is a great springboard into engineering. It allows a relatively easy and slow approach to problems and the lecturer has a lot of knowledge to share. I really enjoyed the dynamic of the lectures as it was easy going and fun but also lead to some interesting discussions and side notes that would be relevant for future courses. I feel that I cannot recommend Orkney College UHI enough, as they have given me the opportunity to learn while I keep working and an amazing chance to change my career to something I have always enjoyed and wanted to do in the future." - Jesse D. Veitch, NC Mechanical Engineering

MARITIME

The Maritime Studies Department, on its own pier in Stromness, has been training seafarers for over 50 years.

Many of our instructors are currently serving at sea as well as providing training at the department when on shore. This gives us a team who are right up to date, highly motivated and aware of modern training needs.

We offer a range of short courses to meet the needs of the fishing and merchant-marine sectors and the latest regulations. We also work closely with the local renewables fleet and the industry around it.

In 2021 we successfully ran the world's first crew ticket for Hydrogen Fuelled vessels. This course has now been approved by the MCA and applications are open to crews referred by their companies. Please contact the department for further information. The department also runs courses in hydrogen safety awareness – on land or at sea – as well as training in Hydrogen cargo handling.

MARITIME SHORT COURSES

STCW COURSES

- Personal Survival Techniques
- Personal Safety and Social Responsibilities
- Elementary First Aid
- Medical First Aid
- Fire Prevention and Fire Fighting*
- Proficiency in Survival Craft and Rescue Boats
- Approved Engine Course AEC Pt 1

STCW UPDATING TRAINING (MANILA AMENDMENTS)

- Personal Survival Techniques
- Fire Prevention and Fire Fighting*
- Proficiency in Survival Craft and Rescue Boats

SEAFISH COURSES

- Basic Health and Safety
- Safety Awareness
- Fire Fighting and Prevention*

OTHER COURSES

- Efficient Deckhand
- RYA Powerboat Level 2
- RYA Advanced Powerboat
- (Commercial Exam extra)
- GMDSS Restricted Operators Certificate
- Master Coded Vessels 200t
- Human Element Leadership Management (Operational)
- Deck Safety Awareness
- RC Marine Radio VHF/DSC

*Due to Covid restrictions we are not running fire training at present. We hope to resume as soon as possible.



SHORT COURSES

Orkney College UHI is as committed to helping businesses as we are individuals. Our extensive range of short courses allows you or your employees to update skills and knowledge in line with current legislation or simply to update your CV. Our short course program draws on the skills and experience of lecturers and the vocational expertise of trainers to ensure that we meet legislative requirements. We welcome the opportunity to play a part in providing courses which will benefit local businesses and the community and have developed our short course programme to reflect this. We deliver a range of courses in Health & Safety, Hospitality, First Aid and Vehicle & Plant Operations which are certificated and accredited by the relevant awarding body. Training can be delivered in house and course content can be customised to meet the needs of an organisation with discounts available for group bookings.

Certificated and non-certificated Evening Classes are also offered by Orkney College UHI.

Contact us:

Talk to us on our helpline **01856 569255** or email **orkney.college@uhi.ac.uk** to learn how we can find your future.

www.orkney.uhi.ac.uk



@OrkneyCollegeUHI, #ThinkUHI