



University of the
Highlands and Islands
Shetland

MCA Approved Engine Course

(This course replaces the former 30-hour Diesel Engine Course)

Accreditation: MCA

Length of course: 5 days

Who is this course aimed at: This course provides the basic theoretical knowledge and practical hands-on experience of marine diesel engines and systems necessary to meet the requirements of the MCA's Codes of Practice for the safety of:

- Small Workboats & Pilot Boats.
- Small Commercial Motor Vessels.
- Large Commercial Sailing & Motor Vessels.

Certain circumstances defined in these Codes of Practice require that "One of the persons ... (employed aboard) ... should be familiar with the operation and maintenance of the main propulsion and associated machinery of the vessel and should have attended a suitable course."

Please note that if you intend to work on a larger vessel (>24 metres) you may require additional qualifications, including STCW basic safety qualifications.

This course does not meet the training requirements for engineers on fishing boats but would still be relevant to the operators of smaller boats (<750 kW) who do not require a formal engineering qualification.

Entry Requirements:

- Minimum age of 18 years.
- Previous engineering knowledge and experience would be an advantage.

Course Outcomes: MCA Approved Engine Course Certificate

Course Description: The course content includes:

- General principles of compression ignition engines.
- Two- and four-stroke operation cycles and construction details.
- Fuel system and the role of air in the combustion process.
- Cooling systems and lubrication technology.
- Power transmission units and hull fittings.



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- Engine electrical systems.
- Safe working practices and pollution legislation.
- Bottled LPG installations.

Assessment is continuous throughout the course.