

# Ouse on Board – Diesel Engine Course Syllabus

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## Day 1

### The four Stroke Cycle

- Induction, compression, power, exhaust
- Basic Engine Overview

### The Fuel System

- Basic Overview
- Fuel Storage
- Filtration
- Pumping
- Injection
- Bleeding
- Maintenance tasks and Fault Finding and tools

### The Air System

- Air in takes and filters
- Turbo Charging and Intercooler
- Air out and exhaust
- Maintenance tasks and Fault Finding and tools

### The Cooling System

- Types of cooling systems
- Controlling the cooling
- Maintenance Tasks and Fault Finding and tools

### The Oil System

- Requirements for oil
- Pumping and filtration
- Maintenance Tasks and Fault Finding and tools

### The Electrical System

- Electrical Items overview
- Battery
- Alternator
- Maintenance Tasks and Fault Finding and tools

### Winterisation

- Importance of winterisation
- Common Winterisation tasks
- Filling the greaser

### Tools and Spares

- Common spares to carry
- Basic tools recap