

**Reference No**

048/527

Duration

12 days

Location

HMS SULTAN

IELTS

5.5

Frequency6 courses
per year

BASIC/INTERMEDIATE DIESEL

AIM OF COURSE

To enable ratings to:

- ◆ Carry out watch keeping duties on main propulsion and electrical generating diesel engines, and to be aware of faults and their dangers.
- ◆ Effect minor repairs and carry out planned maintenance tasks including, the top overhaul of a small engine

OUTLINE SYLLABUS

On successful completion of training the rating will be capable of the following:

- ◆ Explain the principles of operation of ICE
- ◆ Explain the classification and construction of diesel engines
- ◆ Carry out a top overhaul on a large diesel engine
- ◆ Remove inspect and replace Pistons and Liners
- ◆ Carry out crankshaft deflections on a diesel engine and analyse the resultant readings
- ◆ Explain the operation of the diesel engine lubricating oil system
- ◆ State the procedure and occasions for testing diesel engine lubricating oil
- ◆ Explain the operation of the diesel cooling water systems
- ◆ Describe the testing of diesel engine coolant
- ◆ Explain the operation of the starting systems fitted to diesel engines
- ◆ Explain the requirements for shock vibration mountings
- ◆ Explain the operation of the diesel engine fuel system
- ◆ Carry out practical maintenance tasks on a small diesel engines
- ◆ Assess the condition of a running engine
- ◆ Carry out tests on engine oils and analyse the results
- ◆ Carry out tests on engine coolants and analyse the results

ENTRY STANDARDS

- ◆ Previous diesel engine watch keeping experience is not necessary, but students will ideally have a rudimentary knowledge of mechanical engineering and the ability to use common hand tools