



MARINE AND OFFSHORE POWER SYSTEMS - M400

Course Description

This course covers vessel power systems in use in the offshore industry – from the requirements of shipyards, owners, operators and classification societies, to the solutions in place for the power generation and distribution systems of offshore vessels – particularly vessels with Dynamic Positioning systems.

The whole range of equipment is covered, from engines, generators and other electrical equipment (LV or HV) to its control and automation. Trainees will develop an understanding of the reasons for equipment choice, settings, functionality and operation and – importantly – the interactions between different parts of the system and how this affects them.

Learning Outcomes

To gain an insight into the operation, functionality and design principles of offshore power systems to enable trainees to operate and maintain their systems safely and competently, and to undertake first line fault finding, so reducing downtime and improving safety.

Prerequisites

Electrical engineering background; Familiarity with vessel operating procedures.

Participants

Vessel electrical & electronic staff; onshore electrical support & engineering staff; shipyard electrical design staff and anyone with an interest in system design, maintenance, fault-finding and troubleshooting, FMEA, modifications or system improvements.

Duration: 4days

Location: USA – Houston/Pittsburgh, Korea – Busan, UK – Rugby, Brazil – Macaé

Applications:

The course has a wide audience from across the offshore industry for a range of vessels including platform supply and multi-purpose support vessels, drilling rigs and speciality vessels.

The course is not limited to GE Vernova equipment or systems and uses failure/incident case-studies from several suppliers' systems as well as using GE Vernova systems examples to explain concepts and solutions.

