

## DIESEL ELECTRIC PROPULSION

### OVERVIEW

The course commences with an induction session to cover essential safety issues associated with increased use of electrical equipment on the ship. Topics will include:

- Review of electrical power concepts and terminology
- Overview of the various electrical propulsion systems available
- Circuit and wiring diagrams
- Power electronics and systems components
- Harmonic and supply distortion
- Electrical machine construction and operation
- System configurations
- System and Machine Bridge operation
- Study of device failure modes and causes
- Introduction to Engineering Simulator
- Operational exercises on Diesel Electric Plant Simulator
- Plant start-up and shut down Half motor operation Fault analysis and investigation
- Development of on-board operational and emergency procedures

### ENTRY REQUIREMENTS

The content of the course provides an overview and understanding of the propulsion system operation for practising Engineering and Electro-Technical Officers who may be required to develop operational procedures for a diesel-electric plant.

Courses may be customised to study actual designs from customers vessels.

### ASSESSMENT

Assessment is via in course continuous assessment.

### FURTHER INFORMATION

[www.stc.ac.uk](http://www.stc.ac.uk)

0191 427 3500

[info@stc.ac.uk](mailto:info@stc.ac.uk)

 /SouthTyneCollege

 /South Tyneside College

 @SthTyneCollege

 /southtynesidecollege

To apply for this course please telephone the Marine Booking Centre on 0191 427 3772 or alternatively E-mail [marinebooking@tynecoast.ac.uk](mailto:marinebooking@tynecoast.ac.uk)

### **DOWNLOADS**

DEP Joining Instructions.pdf (247.47 KB)

### **DATES & FEES**

Contact us for current course dates and fees.

**[www.stc.ac.uk](http://www.stc.ac.uk)**

**0191 427 3500**

**[info@stc.ac.uk](mailto:info@stc.ac.uk)**

 [/SouthTyneCollege](#)

 [/South Tyneside College](#)

 [@SthTyneCollege](#)

 [/southtynesidecollege](#)