

Engine Room Simulator & Engine Room Resource Management



Course Description:

This course provides participants with practical training to enhance watchkeeping skills and effectively manage emergency situations. It includes exercises on tracing pipelines, performing engine maneuvering, and responding to alarms.

Completion of this training ensures compliance with SIRE 2.0 requirements.



Course Objectives:

- Understand alarm systems, required actions, and available control systems, including Power Management and Control Monitoring systems.
- Simulate blackout conditions caused by power or fuel failure on a running vessel.
- Reactivate a vessel from full blackout (dead ship) to main engine operation under different failure scenarios.
- Practice sequential system start-up procedures (emergency generators, reset systems, and main engine systems).
- Perform engine maneuvering procedures, including changeover processes between bridge, engine room, local, and emergency control.
- Execute emergency braking of the vessel using steering gear systems: NFU, hand steering, emergency controls, and crash/double ring astern maneuvers.



Guidelines:

- IMO Model Course No. 2.07
- STCW Convention (as amended), Section A-I/12 and B-I/12.73
- STCW Convention, Table A-III/1



Entry Standards:

- Chief Engineers (CE)
- Second Engineers (2E)
- Third Engineers (3E)
- Fourth Engineers (4E)
- Electro-Technical Officers (ETO)
- Engine Room Teams (combined with ERM course)



Certification:

- Certificate of Attendance issued upon successful completion of all tests and exercises.



Facilities:

- Online engine simulator
- Relevant handouts



Assessment:

- Practical evaluation conducted by the Instructor



Course Duration:

- 4 days (6 hours per day), offered in combination with the ERM course



Teaching Method:

- Online lectures, simulator-based exercises, instructional videos, and facilitated discussions



Venue:

- This course is delivered in-house on a regular basis, with one session scheduled each month. For upcoming dates, please contact the Training Department at crewtraining@zolarship.com