



ECOTRAIN workshop

The objective of the workshop is to provide the information and instruction needed to operate a ship in a fuel-saving, energy-efficient and environmental-friendly way. Lectures and instruction are supported by training sessions in a full-mission simulator with additional eco-module for measuring fuel consumption and emissions to air. The following topics are emphasized:

- International regulations
- Sustainable development and climate change
- Fuels and consumption
- Emissions to air
- Measuring and monitoring of emissions
- Ship design for good fuel economy
- Engine design
- Energy use and distribution
- Voyage optimization
- Frequency converters
- Trim and speed optimization
- Route planning
- Effects of environmental conditions
- Squat and bank effects
- Maneuvering with optimized turn radius
- Use of autopilot

Target group

Masters and navigating officers, engineering officers and shorebased personnel.

Prerequisites

None

The three-day course is based on the IMO Model Course 4.05, Energy Efficient Operation of Ships, and comprises a total of 24 hours of instruction and practical exercises.