



LCM Offshore and Marine Training

Siemens Energy BlueDrive Solution

Technical Training

Dates	TBA
Place	Training Center Trondheim, Norway
Language	English/Norwegian
Length	3-5 days

Certificates

Certificate for Basic/Advanced BlueDrive User, Technical.

Course Description

The course introduces BlueDrive diesel electric marine solutions roadmap and architecture, focusing on the interplay of different system modules to optimize vessel operations. Technical solutions for load sharing, blackout prevention and recovery as well as power management are discussed. Hands-on technical training on a switchboard guides from preventive maintenance to troubleshooting and repair of individual components (hardware/software).

Objectives

- After gaining information of how different system modules are built-up and interact in the vessel-specific solutions, engineers are
- able to optimize safe and economic operation of their vessel
 - quickly identify and act in critical situations to prevent and minimize any accidents or system damages
 - optimize preventive maintenance and repair of vessel-specific components listed under Topics

Topics

- Diesel Electric Propulsion System
- Motors and Generators
- Main Switchboard
- BlueDrive Propulsion Drives
- Power Management System, PMA
- Remote Control System, RCS (optional)
- Remote Diagnostics System, RDS
- Integrated Automation System, IAS (optional)
- Batteries: Energy Storage System, ESS (optional)
- Blackout prevention and recovery

Example Schedule

Day	Topics
Day 1	Siemens Energy roadmap and delivery Optimized operation 1/2
Day 2	Optimized operation 2/2 Safety during operation Blackout prevention
Day 3	Operation task Factory tour Fault finding 1/2
Day 4-5	Preventive maintenance Fault finding 2/2 Final assessment

Training Methods and Assessment

- Interactive lectures
- Hands-on practical training
- Factory tour
- Formal assessment

Entry Standards

- General knowledge of marine electrical solution
- General knowledge of motors and generators
- Introduction training online (BlueDrive)