



LCM Offshore and Marine Training

Siemens Energy BlueVault ES

Technical Basic Course

Dates	TBA
Place	OnBoard
Language	English/Norwegian
Length	2 days

Certificates

Certificate for BlueVault ES User, Technical

Course Description

The course introduces Siemens Energy BlueVault architecture, focusing on the topology, functions and safety. Technical information about battery cells, building blocks and control systems are discussed. The introduction followed by a walk-through of Siemens batteries present in the customer's ship/vessel (if possible) to advice on safe, efficient, and economical operations as well as troubleshooting.

Objectives

After gaining information about the BlueVault, you are:

- able to know the structure and functions of BlueVault Energy Storage Solution.
- able to know the differences between the different areas of application used for BlueVault Energy Storage Solution.
- able to know the operation principles for BlueVault Energy Storage Solution
- able to know the safety aspects for batteries in marine applications.

Topics

- Energy Storage Solution, ESS
- The BlueVault Battery (Hardware/Software)
- Battery Data and room requirements
- Operation
- Alarm handling
- Shore charging solution
- Maintenance and Safety
- Environment, Health and Safety, EHS

Example Schedule

Day	Topics
Day 1	Siemens Energy BlueVault ES roadmap and delivery Optimized operation for battery and shore charging Battery technology
Day 2	Siemens Energy BlueVault ES Automated factory Testing, safety, and regulation Troubleshooting and Alarm handling Final test

Training Methods and Assessment

- Interactive lectures
- Formal assessment

Entry Standards

- General knowledge of marine electrical solution
- Introduction training online (BlueVault)