Course goal
The goal of this course is to learn the concepts, theory, operation, maintenance, trouble shooting and product description and construction of AMI and AMZ motors and AMG generators. The tools and methods learned could be applied to the work in practice.

Learning objectives
Upon completion of this course the participants would have learnt:
- Concepts, theory, operation and maintenance of motors and generators.
- Features, constructional details, operation and maintenance of the following ABB products:
  - AMI and AMZ motors.
  - AMG Generators.
- Basic troubleshooting knowledge.
- To perform independent maintenance

Contents
Concepts and Theory (refresher):
- Basic Theory
- AC Theory and Motors
- DC Theory and Motors
- Standards/ Applications:
  - Duty Type
  - Ingress protection
  - International cooling
  - Mounting

Products – AMI and AMZ motors and AMG generator:
- Product description
- Basic Ratings and specifications
- Constructions features and details
- Operation

Troubleshooting and Maintenance:
- Basics of trouble shooting
- Typical problems and guide to their identification
- Planned Maintenance for ABB motors and generators

Diagnostics:
- Techniques, theory and tools used for electrical diagnostics and vibration analysis.

Hands on Skill:
- Hands on practical as indicated in section on course outline.

Methods
Classroom lecture
Hands on skill

Student profile
Marine engineers and electro-technical personnel at the support and operational level. Shoreside technical personnel at operational level.

Prerequisites
Participants should know the fundamentals of working with motors and generators.

Duration
3 days

Venue
Singapore

Additional information
Maximum 8 participants
On-site training on request
H874 – Marine HV motors and generators
Course outline

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<th>Day 3</th>
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<td>Products AMZ motor and AMG generator</td>
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