ABB Marine Academy course description
H902 – AC800M applications for LNG, tankers and drilling

Course goal
The goal of this course is that the participants shall be able to conduct troubleshooting as well as performing backup and recovery of the AC800M control system used in the Marine environment

Learning objectives
Upon completion of this course, the participant will be able to explain the AC800M system configuration and function of the components. In addition the participant can troubleshoot and exchange AC800M system hardware, as well as carry out backup and recovery safely.

Contents
General topics
- System function of AC800M in Marine application
- AC800M control system
- AC800M configuration and troubleshooting

Hardware operation
- AC800M system structure and the function of different components
- AC800M preparation
- Connect Process Panel and Demo Drive unit
- Exchange AC800M hardware and Process Panel
- Troubleshoot and recover AC800M system

Operation
- Describe the structure of application programs
- Download configuration to AC800M
- Connect S800 I/O and trace signal
- Communication with Process Panel
- ABB drives integration
- System backup and maintenance

Software
- DriveWindow
- Compact Control Builder
- Panel Builder

Fault-tracing and troubleshooting
- AC800M hardware/firmware mismatch
- S800 I/O warning and alarm
- Process panel communication failure
- Drive communication failure

Methods
Classroom lectures
Practical lessons on training simulator and ACS800 demounit

Student profile
Electro-technical personnel at operational level

Prerequisites
Students should know the fundamentals of working with automation control systems and Microsoft Windows. ABB drilling drive system or similar knowledge is advisable
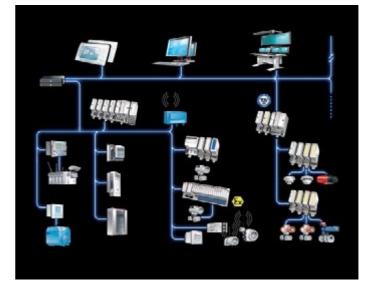
Duration
4 days

Venue
Singapore

Additional information
Minimum 6, maximum 8 participants

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H902 – Marine application with AC800M
Course outline

Course outline

Day 1
- Introduction
- System function of AC800M in marine application, hardware and S800 I/O
- Exercises: using Control Builder, structure text and function block
- Downloading and going on-line

Day 2
- Connecting I/O
- Exercise: S800 I/O signal tracing
- Connecting ABB drive
- Exercise: Interfacing ABB demo drive

Day 3
- Interfacing Process Panel with AC800M
- Exercise: Configure Process Panel graphics
- Process Panel setup

Day 4
- AC800M maintenance
- Exercise: Fault tracing
- Exercise: System backup
- Exercise: System Recover

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