

# H895 – Marine 800xA and AC400

## Automation Training

### System Diagnostic and Troubleshooting

The goal of this course is to learn how to perform regular maintenance and troubleshooting upon the system, and how the 800xA IAMCS (Integrated Alarm, Monitoring and Control System) is designed to fit marine applications and requirements.

#### Learning objectives:

After this course, students will be able to understand the philosophy of an up-to-date automation system. They will be able to use all operator functionalities fully in order to maximize productivity, troubleshoot common issues to reduce decision time, perform engineering activities for runtime operations and optimize the process.

#### Contents:

- 800xA IAMCS philosophy, products overview and life-cycle.
- IT architectures on ferry and cruise applications
  - TCP/IP
  - Routers, switches, firewalls
  - Relationship between networks onboard
- Microsoft-based IT devices
  - Clients and servers
  - MS Windows 7/'10, MS Windows '08/'10
  - Industrial IT with OPC protocol
  - 800xA configuration and startup
- AC800M PLC programming
  - Base concepts of CPU w/ program languages

#### Methods:

Workshop held in a classroom;  
Build demonstration application starting from a void system; Hands-on exercises on 800xA system; Fault tracing by identifying issues from abnormalities.

#### Duration: 5 days

#### Student profile:

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

#### Prerequisites:

Students should know the fundamentals of working with automation control systems. Marine 800xA automation training for operators - operation and diagnostic is advisable.

#### Venue:

- Genoa, Italy
- Rotterdam, Netherlands

#### Additional information:

Minimum 6, maximum 8 participants.