

G3891

ACS880 LC multidrives for Marine applications, Operation and maintenance

Course type

This is a class room course with hands-on exercises supported by an instructor.

Course description

The course contains lectures, hands-on exercises and fault tracing with ACS880LC/CLC.

The course duration is 2.5 days.

Course goal

The goal of this course is to teach students to start-up, adjust, operate, maintain, troubleshoot and repair ACS880 liquid-cooled supply, inverter and cooling units.

Student profile

This course is intended for electricians, technicians, and engineers, who install, operate and service ACS880 liquid-cooled drives.

Prerequisites

- ÿ Basic knowledge of electronics
- ÿ Experience in using a Windows PC

Course objectives

Upon completion of this course, you will be able to:

- ÿ Commission ACS880 liquid-cooled drives
- ÿ Trace and correct faults
- ÿ Operate and maintain ACS880 liquid-cooled drives.

Main topics

- ÿ Construction of drive-, supply and cooling units
- ÿ Control panel functions
- ÿ Locating and identifying terminals, boards and other components
- ÿ Fault diagnostics
- ÿ DriveComposer commissioning and maintenance tool operations
- ÿ Cooling methods of drive- and supply units
- ÿ Functionality of the cooling unit
- ÿ Installation of the cooling unit
- ÿ Start-up of the cooling unit
- ÿ Replacement of the modules
- ÿ Start-up of the ACS880 I/O bus

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Day 1

- 9.00 Introduction of the course
- 9.15 System description
- 10.15 Break
- 10.30 Control panel functions and start-up procedure
- 11.15 Start-up exercises with the panel
- 12.00 Lunch
- 13.00 DriveComposer program
- 13.45 DriveComposer exercises
- 14.15 Break
- 14.30 Exercises continue
- 16.00 End of the day

Day 2

- 8.30 Inverter software configuration
 - control diagrams
 - communication
- 10.00 Break
- 10.15 Optional equipment
- 11.00 Liquid Cooling Unit
- 12.00 Lunch
- 13.00 Liquid Cooling Unit commissioning
- 14.15 Break
- 14.30 Location exercises / Fan replacement
- 16.00 End of the day

Day 3

- 8.30 Inverter module replacement exercise
- 10.00 Break
- 10.15 Cooling unit start-up exercise
- 12.00 Lunch
- 13.00 End of the training