

Course description

G185

ACS800-87LC, start-up, maintenance and hands-on training

Course Type

This is a classroom course with hands-on lab activities supported by an instructor. Theory should be studied beforehand in the e-learning course G185e.

Course Duration

The course duration is 2 days.

Course Goal

The goal of this course is to teach students to start-up, adjust, operate, maintain, troubleshoot and repair ACS800-87LC Wind Turbine Converters.

Student Profile

This course is intended for electricians, technicians, and engineers, who install, operate and service ACS800-87LC Wind Turbine Converters.

Prerequisites

Prior to attending this course, students should have

- Basic knowledge of electronics
- Experience in using PCs in the Windows environment

Description

The course contains theoretical presentations and hands-on exercises with ACS800-87 Liquid cooled Wind Turbine Converter unit.

Course Objectives

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

- Commission and tune ACS800-87LC Wind Turbine Converters
- Use the fault tracing methods
- Replace the faulty parts and units
- Operate and maintain ACS800-87LC Wind Turbine Converters

Main Topics

- Reading and interpreting circuit diagrams
- Installation procedure
- Ethernet adapter communication
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Changing the setting
- Fault indications and maintenance
- DriveWindow commissioning and maintenance tool operations

Low voltage drives training

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Course agenda

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Day 1

- 09:00 Introduction of the course
- 09:15 System presentation
 - product structure
 - system functionality
- 10:15 Break
- 10:30 Installation
 - mechanical installation
 - electrical installation
- 11:00 DriveWindow tool
 - connections
 - functions
- 11:30 DriveWindow exercises
- 12:00 Lunch
- 13:00 DriveWindow exercises continue
- 14:15 Break
- 14:30 Commissioning
 - safety
 - start- up procedure
- 16:00 End of the day

Day 2

- 08:30 Maintenance
 - annual maintenance
 - ethernet adapter functions
- 09:00 Fault tracing
 - fault indications, loggers, inverter
- 10:00 Break
- 10:15 Repair
 - replacing the cooling fans
 - replacing the inverter module
- 11 :00 Inverter unit and module exercises
 - location exercise
 - cooling fan exchange exercise
- 11:45 Lunch
- 12:30 Inverter module exercise
 - module removal
 - component location
- 14:00 Break
- 14:15 Module installation back to the cabinet
- 15:00 Ethernet adapter exercise
- 16:00 End of the cours

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