Course description

**G188**

**ACS880-87LC, start-up, maintenance and hands-on training**

**Course Type**
This is a classroom course with hands-on lab activities supported by an instructor.

**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 drives.

**Student Profile**
This course is intended for electricians, technicians, and engineers, who install, operate and service ACS880-87LC Wind Turbine drives.

**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 ACS880-87 Liquid cooled Wind Turbine Drive unit.

**Course Objectives**
Upon completion of this course, students will be able to:
- Commission and tune ACS880-87LC drives according to manual instructions
- Use the fault tracing methods
- Replace the faulty parts and units
- Operate and maintain ACS880-87LC drives

**Main Topics**
- Reading and interpreting circuit diagrams
- Installation procedure
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Changing the setting
- Fault indications and maintenance
- Drive composer commissioning and maintenance tool operations
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  Drive composer tool
  • connections
  • functions
11:30  Drive composer exercises
12:00  Lunch
13:00  Drive composer 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
09:00  Fault tracing
  • fault indications, loggers, inverter
10:00  Break
10:15  Repair
  • replacing the cooling fans
  • replacing the inverter module
11:00  Reading circuit diagrams
12:00  Lunch
13:00  Inverter unit and module exercises
  • location exercise
  • cooling fan exchange exercise
13:30  Inverter module exercise
  • module removal
  • component location
14:15  Break
14:30  Module installation back to the cabinet
16:00  End of the course