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

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 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

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