Course description

G183
ACS800-67LC wind turbine converter
Startup and service basics

Course Duration
The course duration is 3 days.

Course type
Classroom course with hands-on lab activities led by an instructor

Course Goal
The goal of this course is to teach students to start-up, adjust, operate and maintain ACS800-67LC Wind Turbine Converter.

Student Profile
This course is intended for electricians, technicians, and engineers, who install, operate and service ACS800-67LC Wind Turbine Converter.

Prerequisites
Prior to attending this course, students should have
- Basic knowledge of electronics
- Experience in using PC in the Windows environment

Description
The course contains lectures and hands-on exercises with ACS800 drive units and start-up exercises with Wind Turbine Converter.

Course Objectives
Upon completion of this course, students will be able to:
- Commission ACS800-67LC Wind Turbine Converter
- Operate and maintain ACS800-67LC Wind Turbine Converter

Main Topics
The course has the following topics and hands-on exercises:
- Component and board functions
- Cascade generator control principle
- Locating and identifying terminals, boards and other components
- Converter and Supply unit commissioning
- Changing the settings
- Use of DriveWindow tool in commissioning and fault tracing
- Changing the module and other basic parts
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
   - cooling installation

11:00 DriveWindow tool
   - connections
   - functions

11:30 DriveWindow exercises

12:00 Lunch

12:45 DriveWindow exercises continue

14:15 Commissioning
   - start-up procedure
   - parameters

16:00 End of day 2

Day 3

08:30 Start-up with WTD unit

10:00 Break

10:15 Measurements and start-up exercises with WTD unit

11:30 Lunch

12:15 Summary

13:00 End of the course

Day 2

08:30 Repair
   - replacing the cooling fans
   - replacing the inverter module

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