

## 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

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## 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 Break

14:30 Maintenance  
- annual maintenance  
- ethernet adapter functions  
- reading circuit diagrams

15:15 Fault tracing  
- Manuals, fault indications,  
- loggers, inverter

16:00 End of day 1

## Day 2

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

09:00 Inverter unit and module exercises  
- location exercise  
- cooling fan exchange exercise

10:00 Break

10:15 Inverter module exercise  
- module exchange

12:00 Lunch

12:45 Ethernet adapter exercise

14:00 Break

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

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