

## Course description

# G164

# ACS800-77LC, 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 ACS800-77LC Wind Turbine drives.

### Student Profile

This course is intended for electricians, technicians, and engineers, who install, operate and service ACS800-77LC 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 ACS800-77 Liquid cooled Wind Turbine Drive unit.

### Course Objectives

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

- Commission and tune ACS800-77LC drives
- Use the fault tracing methods
- Replace the faulty parts and units
- Operate and maintain ACS800-77LC drives

### 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

ABB University Finland, Helsinki Training Center  
Helsinki.abbuniversity@fi.abb.com  
[www.abb.com/abbuniversity](http://www.abb.com/abbuniversity)

## 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 course

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