

Course description

G1641

ACS800-77LC, startup and maintenance hands-on

Course type and description

The ACS800-77LC learning event comprises of two parts: e-learning courses and classroom course.

This is the second part of the learning event: This is a classroom course with hands-on lab activities supported by an instructor. The course contains hands-on exercises with ACS800-77 Liquid cooled Wind Turbine Drive unit.

The first part of the learning event includes the theory based e-learning courses mentioned below. Please note that the e-learning course material is not covered during the classroom course. You are required to complete the e-learning part before the classroom part which is essential in order to be able to succeed in the hands-on lab activities during classroom days. The status of e-learning course completion is monitored.

Please see the accompanying figure of possible learning paths.

Prerequisites

Prior to attending this course, students should have

- Basic knowledge of electronics
- Experience in using PCs in the Windows environment
- G164e web course

Course Duration

The course duration is 1 day.

Student Profile

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

Course Goal

The goal of this course is to teach students to start-up, adjust, operate and maintain ACS800-77LC Wind Turbine drives.

Course Objectives

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

- Commission and tune ACS800-77LC drives
- Replace the faulty parts and units
- Operate and maintain ACS800-77LC drives

Main Topics

- Reading and interpreting circuit diagrams
- Ethernet adapter communication
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Changing the setting
- Maintenance
- DriveWindow 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 DriveWindow exercises
- 10:15 Break
- 10:30 DriveWindow exercises continue
- 11:30 Inverter unit and module exercises
 - location exercise
 - cooling fan exchange exercise
- 12:00 Lunch
- 12:45 Inverter unit and module exercises continue
 - module removal
- 14:00 Break
- 14:15 Commissioning
 - safety
 - start- up procedure
- 15:00 Ethernet adapter exercise
- 16:00 End of the day