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 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

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.

Low voltage drives training
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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