

COURSE DESCRIPTION

# G160

## ACS800 Multidrive, Startup and Maintenance Hands-on



### Course Type and Description

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

This is the second part of the learning event: classroom course with hands-on lab activities supported by an instructor. The course contains hands-on exercises with ACS800 multidrive units. Note! This course includes partly same exercises as courses G161 and G156. Course G161 includes same hands-on exercises and also theoretical part (duration 2.5 days).

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.



### Course Duration

The course duration is 1.5 day.



### Student Profile

This course is intended for electricians, technicians, and engineers, who install, operate and service ACS800 multidrives.



### Course Goal

The goal of this course is to teach students to start-up, adjust, operate, maintain and troubleshoot ACS800 multidrives.



### Course Objective

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

- Commission and tune ACS800 multidrives
- Exchange the modules
- Operate and maintain ACS800 multidrives



### Main Topics

- Reading and interpreting circuit diagrams
- ACS800 system application program
- Control panel functions
- Locating and identifying terminals, boards and other components
- Converter and Supply unit commissioning
- Changing the setting
- Fault diagnostics
- DriveWindow commissioning and maintenance tool operations



### Prerequisites

Prior to attending this course, students should have:

- Basic knowledge of electronics
- Experience in using PCs in the Windows environment
- Course G160e web course completed

**Day 1**

09:00 Introduction of the Course  
09:15 Circuit Diagrams  
10:00 Break  
10:15 Exercise 1  
11:15 Exercise 2  
12:15 Lunch  
13:00 Exercise 3  
14:15 Exercise 4 or 5  
16:00 End of the Day

**Day 2**

08:30 Exercise 5  
10:00 Break  
10:15 Exercise 6  
11:30 Lunch  
12:30 End of the Course

**Exercise 1:** DriveWindow 2 exercise

**Exercise 2:** Inverter unit exercise

**Exercise 3:** Diode supply unit and module exercise

**Exercise 4:** IGBT supply unit (ISU) exercise

**Exercise 5:** DriveWindow network exercise

**Exercise 6:** Control panel and start-up exercise

**Exercise 7:** TSU exercise

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**Street address**

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**Low voltage drives training**

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