

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.

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.

Course duration

The course duration is 1.5 days.

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 objectives

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

Low voltage drives training

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Course agenda

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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 7
- 16:00 End of the day

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

Day 2

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

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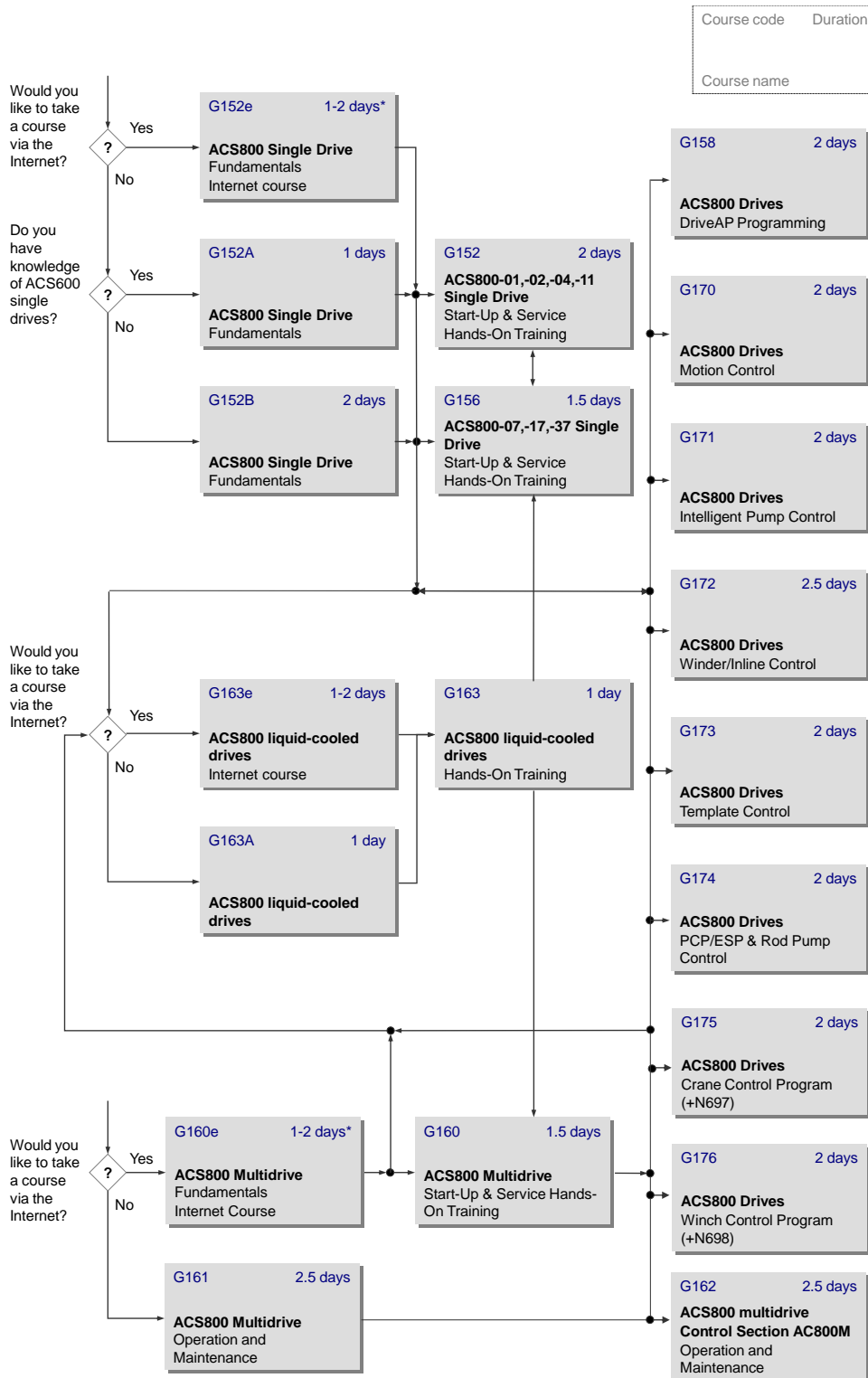
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Learning Path

ACS800 drives Learning path



* The duration of the Internet courses depends on personal professional background and study pace