

Course description

G161

ACS800 multidrive, start-up, maintenance and service

Course type

This is a classroom course with hands-on lab activities supported by an instructor.

Course Duration

The course duration is 2.5 days.

Course Goal

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

Student Profile

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

Prerequisites

- Basic knowledge of electronics
- Experience with using a PC in the Windows environment

Description

The course contains lectures, hands-on exercises and fault tracing with ACS800 units.

This course belongs to a learning path. Please see the accompanying figure of possible learning paths.

Note! This course includes partly the same exercises as courses G160 and G156.

Course Objectives

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

- Commission and tune ACS800 multidrives
- Trace and correct faults
- Operate and maintain ACS800 multidrives

Main Topics

- Component and board functions
- 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
- Optional equipment overview
- Fine tuning of the converter
- Fault tracing methods
- DriveWindow commissioning and maintenance tool operation

Low voltage drives training

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Course agenda

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Day 1

- 09:00 Introduction of the course
- 09:15 System description
- 10:00 Break
- 10:15 Hardware construction
 - main circuits
 - control electronics
- 11:15 Control panel functions and start-up procedure
- 12:00 Lunch
- 13:00 Start up exercises with the panel
- 13:45 Optional equipment
- 14:15 Break
- 14:30 Inverter software configuration
 - parameters
 - control diagrams
- 16:00 End of the day

Day 2

- 08:30 DriveWindow program
- 09:00 DriveWindow exercises
- 10:00 Break
- 10:15 Exercises continue
- 12:00 Lunch
- 13:00 Inverter Unit and Module exercise
- 14:15 Break
- 14:30 IGBT Supply Unit (ISU) exercise
- 16:00 End of the day

Day 3

- 08:30 Diode Supply Unit and Module exercise
- 10:00 Break
- 10:15 IGBT Exchange exercise
- 12:00 Lunch
- 13:00 End of the course

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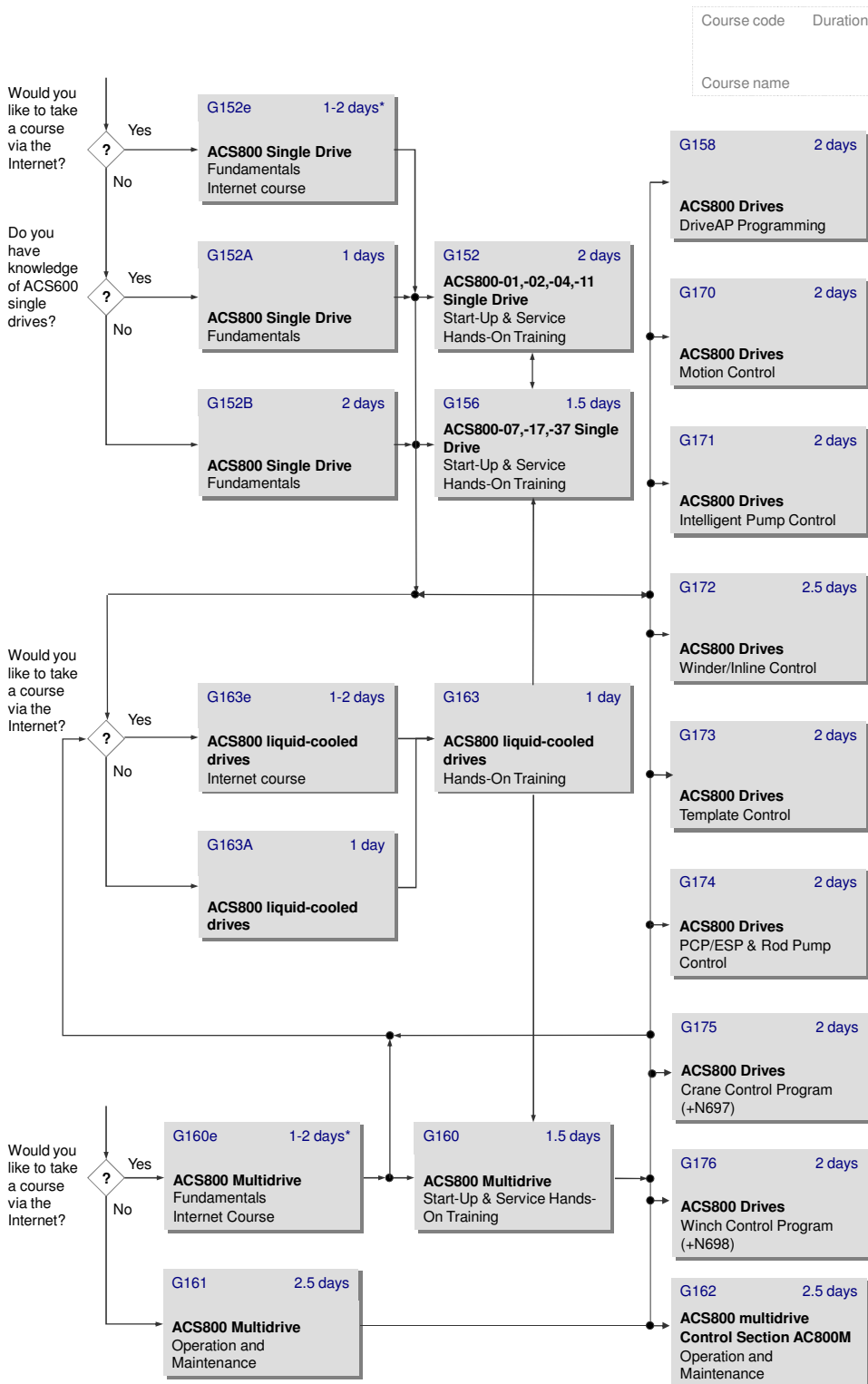
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Learning Paths

ACS800 drives Learning paths



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