

Course description

G156

ACS800-X7 single drive, startup, maintenance and service hands-on

Course type and description

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

This is the second part of the learning event: The course contains hands-on exercises and fault tracing with ACS800-07 units, hands-on lab activities are supported by an instructor. **Note!** This course includes partly same exercises as the courses G152, G160 and G161.

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

- Basic knowledge of electronics
- Experience with using a Windows PC
- Courses G107e, G159e and G156e. Please refer to the accompanying figure of ACS800 single drive learning paths for course details.

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 ACS800-07/-17/-37 single drives.

Course goal

The goal of this course is to teach students to install, start-up, adjust, operate, maintain, troubleshoot and repair ACS800-07/-17/-37 single drives.

Course objectives

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

- Commission and tune ACS800-07/-17/-37 single drives.
- Trace and correct faults
- Operate and maintain ACS800-07/-17/-37 single drives.

Main topics

- Hardware of ACS800-07
- Component and board functions
- Reading and interpreting circuit diagrams
- ACS800 standard application program with PROFIBUS
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Redundancy on request
- Fault tracing methods
- Regenerative drive
- DriveWindow commissioning and maintenance tool operations

Low voltage drives training

ABB University UAE, Dubai Training Center
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Course agenda

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Day 1

09:00 Course Information
09:10 Exercise 1
10:20 Coffee break
10:30 Exercise 2
12:00 Lunch
12:45 Exercise 3
14:15 Coffee break
14:30 Exercise 4
16:00 End of the day

Day 2

08:30 Exercise 5
10:00 Coffee break
10:15 Fault tracing & ACS800-07 Start-up
11:45 Lunch
12:30 Questions & Feedback
12:45 Factory tour (optional)
14:00 End of the course

Exercise packages	Group 1 Exercise	Group 2 Exercise	Group 3 Exercise	Group 4 Exercise	Group 5 Exercise
Package A Diode supply section	1	5	4	3	2
Package B Profibus	2	1	5	4	3
Package H Regenerative drive	3	2	1	5	4
Package C Inverter Unit	4	3	2	1	5
Package F/ H Drive Window 2.X/ Regenerative drive	5	4	3	2	1

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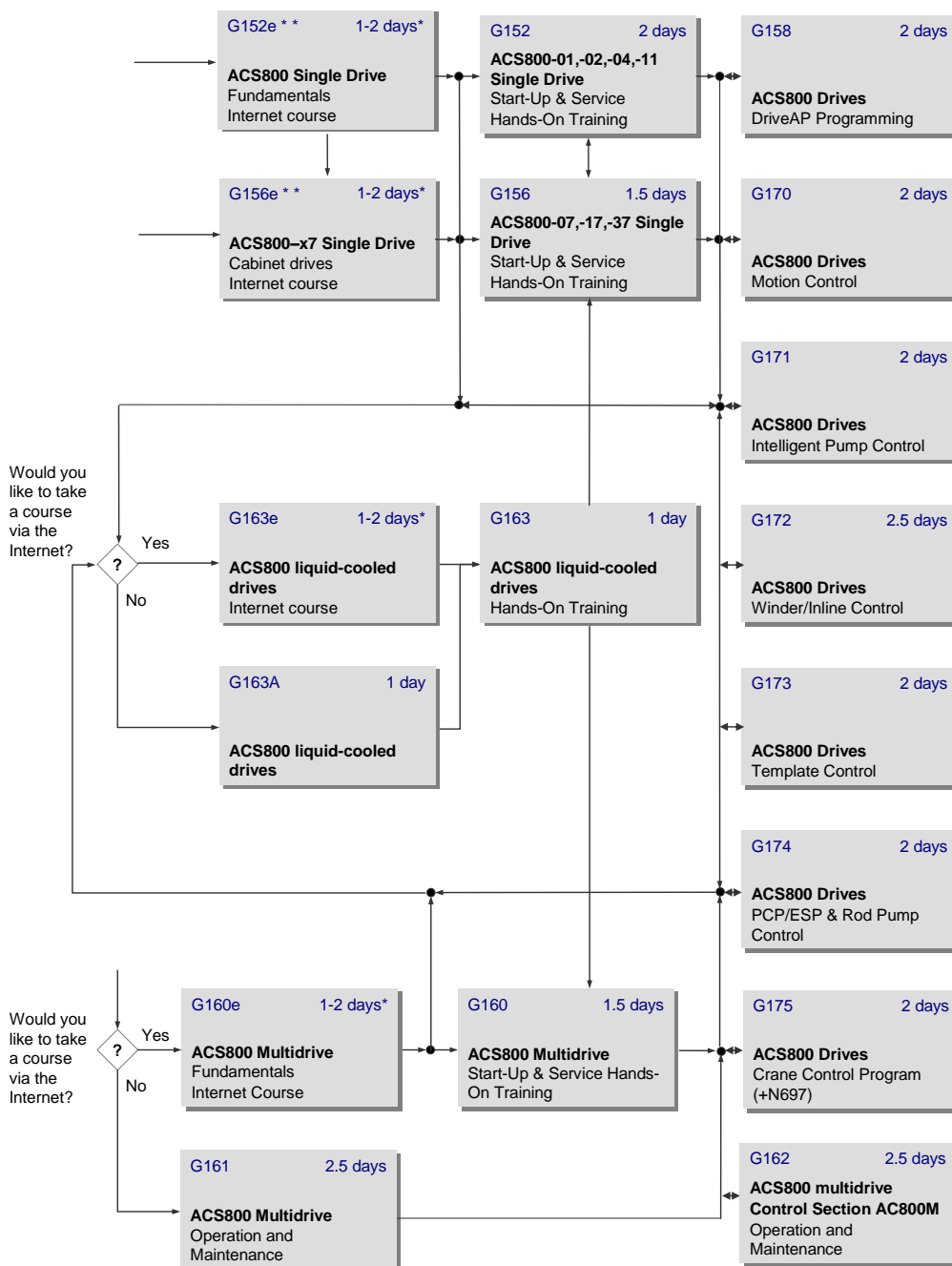


Learning Path

ACS800 drives Learning path

ACS800 Learning Paths

Course code	Duration
Course name	



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

** The course can be given in a classroom for the customers.