

Course description

G152

ACS800 single drive, start-up, maintenance and service hands-on training

Course Duration

The course duration is 2 days.

Course type

This is a classroom course with hands-on lab activities supported by an instructor. Theory-based internet course G152e needs to be studied before attending to this course.

Course Goal

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

The training covers the following types and constructs:

- ACS800-01
- ACS800-02 R7 or ACS800-04 R8
- ACS800-11 on request

Student Profile

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

Prerequisites

- Basic knowledge of electronics
- Experience in using a Windows PC
- Course G152e.

Please refer to the accompanying figure for course names and durations.

Description

This course contains hands-on exercises and fault tracing with ACS800 units. This course belongs to a learning path that may utilize blended learning. Please see the accompanying figure of possible learning paths.

Course Objectives

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

- Commission and tune ACS800 single drives
- Trace and correct faults
- Operate and maintain ACS800 single drives

Main Topics

- Hardware and software overview
- Component and board functions
- Reading and interpreting circuit diagrams
- ACS800 standard application program
- Control panel functions
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Fine tuning of the converter
- Fault tracing methods
- Installation principles
- Adaptive programming
- Optional equipment overview
- Adaptive programming
- DriveAP adaptive programming tool operations
- DriveWindow commissioning and maintenance tool operations

Low voltage drives training

ABB University Finland, Helsinki Training Center
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Course agenda

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Day 1

08:30 Course Information
08:45 Drive AP presentation
09:00 Exercise 1
10:30 Coffee break
10:45 Exercise 2
12:10 Lunch
12:55 Exercise 3
14:20 Coffee break
14:35 Exercise 4
16:00 End of the day

Day 2

08:30 Exercise 5
10:00 Coffee break
10:15 Exercise 6
11:45 Lunch
12:30 Exercise 7
14:00 Coffee break
14:15 Fault tracing exercises
15:30 Questions & Feedback
16:00 End of the course

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Exercise packages	Group 1 Exercise	Group 2 Exercise	Group 3 Exercise	Group 4 Exercise	Group 5 Exercise
Package A Installation	1	7	6	5	4
Package B Location ACS 800-01	2	1	7	6	5
Package C Adaptive programming	3	2	1	7	6
Package E Component replacement	4	3	2	1	7
Package F Start up with control panel	5	4	3	2	1
Package H Drive Window	6	5	4	3	2
Package I Hardware ACS 800-02	7	6	5	4	3

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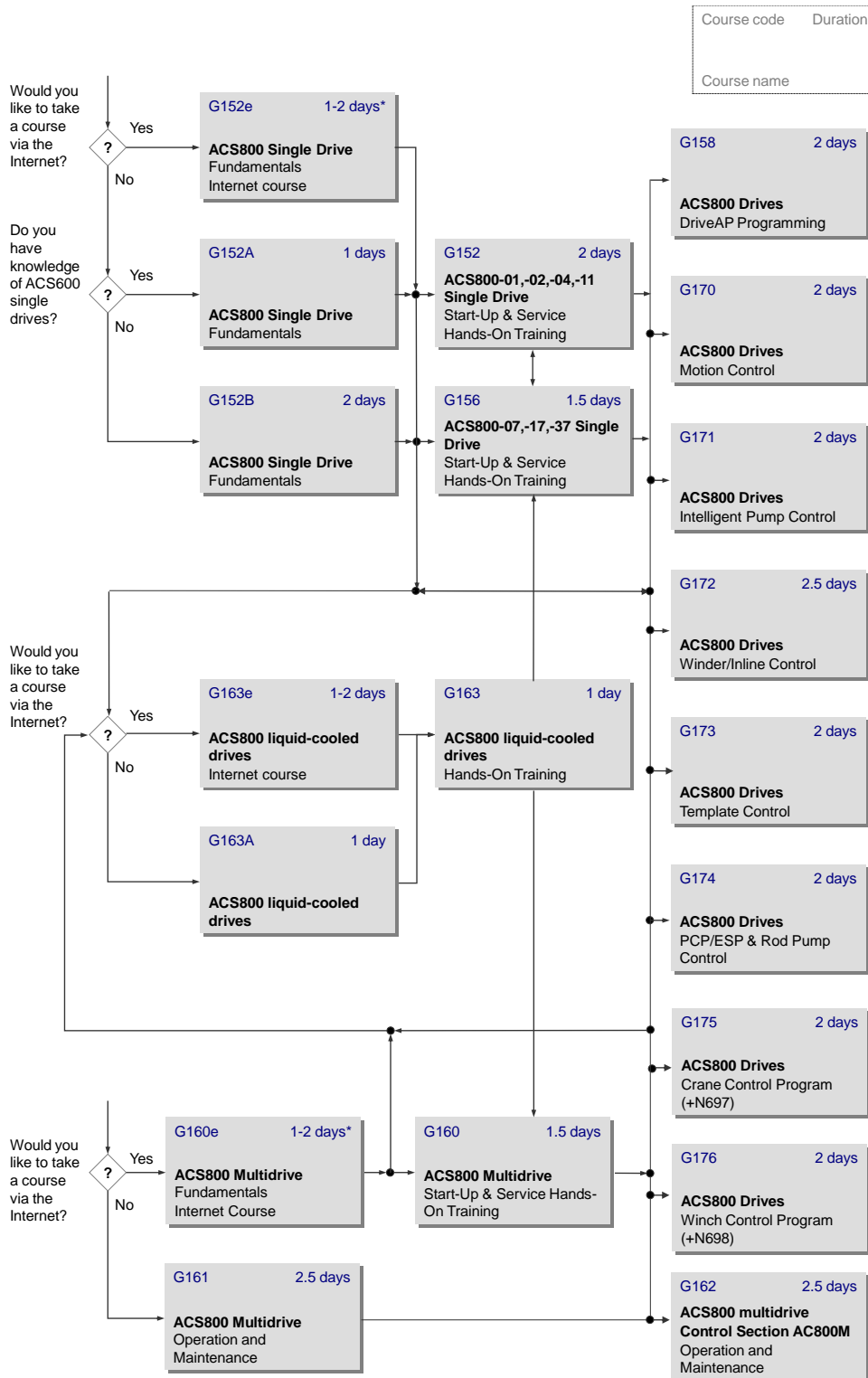
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Learning Paths

ACS800 drives Learning paths



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