

Course description

G163

ACS800 liquid-cooled drives, startup, maintenance and service hands-on

Course type and description

The ACS800 liquid-cooled drives 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 and fault tracing with ACS800 liquid-cooled units.

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 G163e or G163A
- One of the following courses:
 - Course G161
 - Course G160
 - Course G152
 - Course G156

Course duration

The course duration is 1 day.

Student profile

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

Low voltage drives training

ABB University Finland, Helsinki Training Center
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Course goal

The goal of this course is to teach students to start-up, adjust, operate, maintain, troubleshoot and repair ACS800 liquid-cooled supply, inverter and cooling units.

Course objectives

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

- Commission ACS800 liquid-cooled drives
- Trace and correct faults
- Operate and maintain ACS800 liquid-cooled drives

Main topics

- Construction of drive-, supply and cooling units
- Cooling methods of drive- and supply units
- Functionality of the cooling unit
- Installation of the cooling unit
- Start-up of the cooling unit
- Replacement of the modules

Course agenda

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Day 1

- 09:00 Course Information
- 09:15 Location exercise / Fan replacement exercise
- 10:00 Coffee break
- 10:15 Location exercise / Fan replacement exercise
- 11:00 Module replacement, exercise / Liquid Cooling Unit start-up, exercise
- 12:00 Lunch
- 13:00 Module replacement, exercise / Liquid Cooling Unit start-up, exercise
- 14:00 Coffee break
- 14:15 Questions & Feedback
- 15 :30 End of the course

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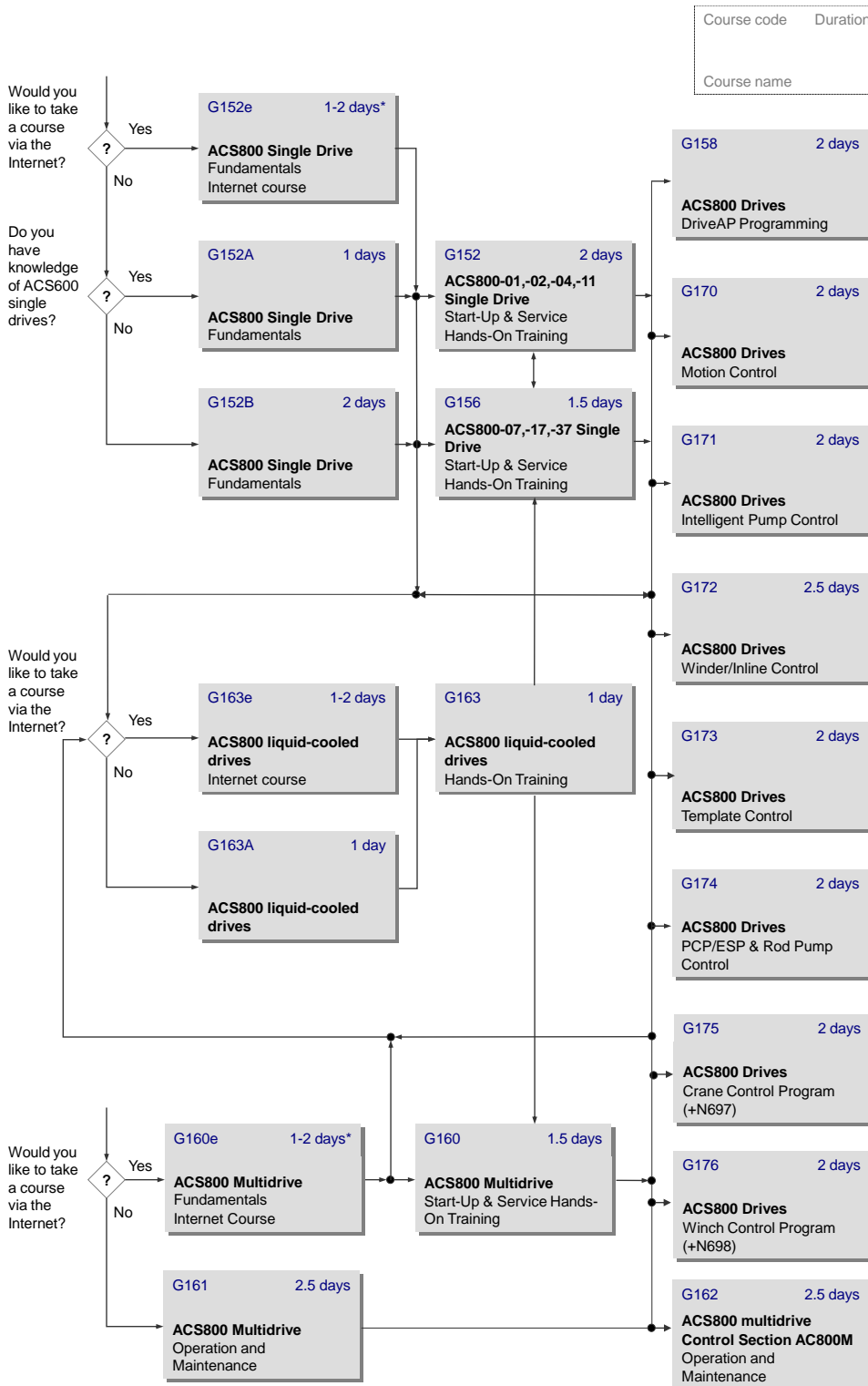
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Learning Path

ACS800 drives Learning path



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