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.

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

Low voltage drives training
ABB University Finland, Helsinki Training Center
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Course agenda

G163

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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
Learning Path

ACS800 drives

Learning path

Would you like to take a course via the Internet?

Yes

No

Do you have knowledge of ACS600 single drives?

Yes

No

Course code | Duration
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G152 | 2 days*
ACS800 Single Drive Fundamentals Internet course

G152A | 1 day
ACS800 Single Drive Fundamentals

G152B | 2 days
ACS800 Single Drive Fundamentals

G156 | 1.5 days
ACS800-07, -17, -37 Single Drive Start-Up & Service Hands-On Training

G152 | 2 days
ACS800-01, -02, -04, -11 Single Drive Start-Up & Service Hands-On Training

G158 | 2 days
ACS800 Drives DriveAP Programming

G170 | 2 days
ACS800 Drives Motion Control

G171 | 2 days
ACS800 Drives Intelligent Pump Control

G172 | 2.5 days
ACS800 Drives Winder/Inverter Control

G156 | 1 day
ACS800 liquid-cooled drives Hands-On Training

G163 | 2 days
ACS800 liquid-cooled drives Internet course

G163A | 1 day
ACS800 liquid-cooled drives

G160 | 1.5 days
ACS800 Multidrive Start-Up & Service Hands-On Training

G160e | 1-2 days*
ACS800 Multidrive Fundamentals Internet course

G161 | 2.5 days
ACS800 Multidrive Operation and Maintenance

G162 | 2.5 days
ACS800 multiride Control Section AC800M Operation and Maintenance

G160 | 2 days
ACS800 Multidrive Start-Up & Service Hands-On Training

G161 | 2.5 days
ACS800 Multidrive Operation and Maintenance

G162 | 2.5 days
ACS800 Multidrive Control Section AC800M Operation and Maintenance

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