

G156

ACS80-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.

Prerequisites

- Basic knowledge of electronics
- Experience with using a Windows PC
- Courses G107e, G159e and G156e

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

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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