

Course description

G330

ACS600 multidrive, operation and maintenance

Course Duration

The course duration is 3 days.

Course type

This is a classroom course with hands-on lab activities supported by an instructor.

Course Goal

The goal of this course is to teach students to start-up, adjust, operate, maintain, troubleshoot and repair ACS600 multidrive systems.

Student Profile

This course is intended for electricians, technicians, and engineers who install, operate and service ACS600 multidrive systems.

Prerequisites

- Basic knowledge of electronics
- Experience in using a Windows PC

Description

This course belongs to a learning path. Please see the accompanying figure of possible learning paths.

Course Objectives

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

- Perform basic start-up operations of ACS600 multidrive systems
- Tune ACS600 multidrive frequency converters
- Make backups and restore ACS600 multidrive system application programs
- Use the ACS600 multidrive tool programs

Main Topics

- Component and board functions
- Direct Torque Control (DTC) principle
- Using and interpreting circuit diagrams and other system documents
- Locating and identifying terminals, boards and other components
- Inverter software functions
- ACS600 multidrive tool programs
- Frequency converter start-up and control
- Supply section operations and measurements
- Optional equipment overview
- Fault tracing methods

Low voltage drives training

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Course agenda

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ACS600 multidrive operation and maintenance

Day 1

- 09:00 Introduction to the course
- 09:15 System description
- 10:15 Coffee break
- 10:30 Location exercise
- 11:00 Inverter units
 - Main Circuit hardware
 - Control hardware
- 12:00 Lunch
- 13:00 Control panel functions and start-up procedure
- 13:30 Start-up exercises with the panel
- 14:00 Coffee break
- 14:15 Software configuration
 - Parameters
 - Control diagram
- 16:00 End of day 1

Day 2

- 08:30 Software configuration continues
- 09:30 Coffee break
- 09:45 DriveWindow with ACS 600 multiDrive
- 10:30 Exercises with DriveWindow
- 12:00 Lunch
- 13:00 Exercises continue
- 14:00 Coffee break
- 14:15 Supply Sections
 - Diode supply section
 - Construction
 - Commissioning
- 15:00 Thyristor supply section
 - Construction
- 16:00 End of day 2

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Day 3

- 08:30 Thyristor supply section
- Software
- 10:00 Coffee break
- 10:15 Supply section exercises
- 11:30 Fault tracing principles
- Diagnostics
- 12:00 Lunch
- 13:00 Changing the power plates
- 13:30 Fault tracing simulations with the training unit
- 14:00 Coffee break
- 14:15 Fault tracing continues
- 15:00 Summary
- 16:00 End of the course

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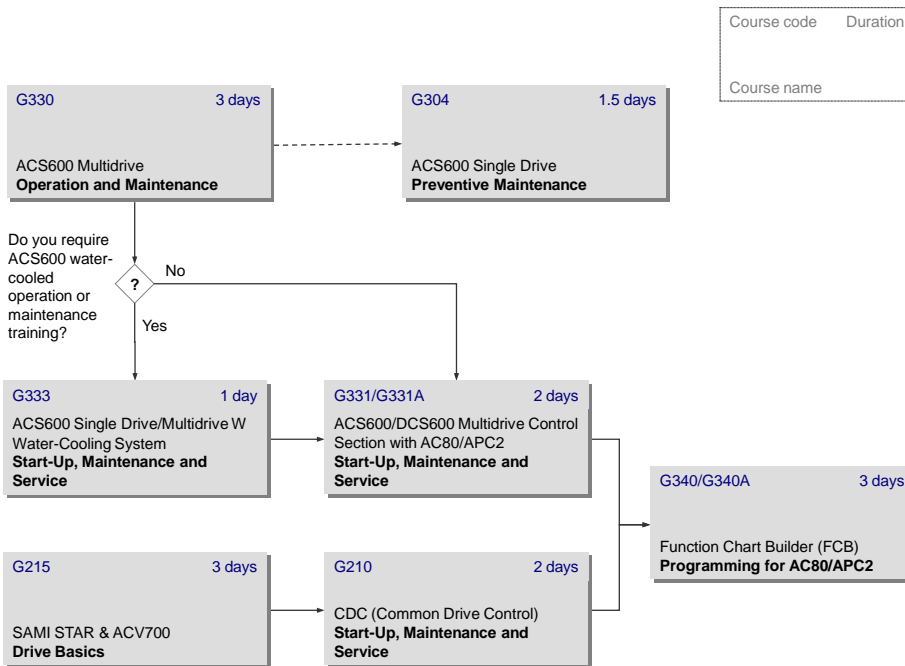
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Learning Paths

ACS600 multidrives Learning paths



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