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
Course agenda

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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
Course agenda

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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
Low voltage drives training
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Learning Paths
ACS600 multidrives
Learning paths