COURSE DESCRIPTION

G330
ACS600 Multidrive, Operation and Maintenance

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

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

Course Duration
The course duration is 3 days.

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

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

Course Objective
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

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

Day 1

09:00	Introduction to the Course
09:15	System Description
10:15	Coffee Break
10:30	Location Exercise
11:00	Inverter Units
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
16:00	End of the Day

Day 2

08:30	Software Configuration Continues
09:30	Coffee Break
09:45	DriveWindow with ACS600 Multidrive
10:30	Exercises with DriveWindow
12:00	Lunch
13:00	Exercises Continue
14.00	Coffee Break
14:15	Supply Sections
15:00	Thyristor Supply Section
16:00	End of the Day

Day 3

08:30	Thyristor Supply Section
10:00	Coffee Break
10:15	Supply Section Exercises
11:30	Fault Tracing Principles
12:00	Lunch
13:00	Changing the Power Plates
13:30	Fault Tracing Simulations with the Tracing Unit
14.00	Coffee Break
14:15	Fault Tracing Continues
15:00	Summary
16:00	End of the Course

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