Course description

G162
ACS800 multidrive control section with AC800M

Course duration
The course duration is 2.5 days.

Course type
Classroom course with hands-on lab activities led by an instructor

Course goal
The goal of this course is to teach students to start-up, operate, maintain, troubleshoot and repair the control section AC800M of ACS800 multidrive systems.

Student profile
This course is intended for electricians, technicians, and engineers who maintain control sections of ACS800 multidrive systems with the AC800M.

Prerequisites
- Basic knowledge of electronics
- Experience with using a Windows PC
- Either of the following two learning paths:
  - Course G161
  - Courses G160e and G160

Please refer to the accompanying figure of ACS800 multidrive learning paths for course names and durations.

Description
This course contains hands-on training with AC800M units.
This course belongs to a learning path that may utilize blended learning. Please see the accompanying figure of possible learning paths.

Course objectives
Upon completion of this course, students will be able to:
- Perform the basic start-up tasks
- Locate and correct faults, trace input and output signals of the AC800M
- Replace a faulty module
- Make backups and restore application programs
- Use AC800M SW tool programs

Main topics
- System components and functions
- Using and interpreting system documents
- Application program structure and basic functional blocks
- Operation and basic use of the SW tool program in monitoring and fault tracing
- Backup and restore
- Fault tracing methods and reparation of the AC800M

Low voltage drives training
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Course agenda

G162
ACS800 multidrive control section with AC800M

Day 1
12:00 Lunch
13:00 Introduction of the course
13:15 Introduction of the AC800M
14:00 Break
14:15 HW for the AC800M
15:15 HW documentation
16:00 End of day 1

Day 2
08:30 Introduction to the PC-tool
10:00 Break
10:15 PC-tool
- Opening, loading, backup and restore
- Exercises
12:00 Lunch
13:00 Control Builder Professional
- Program structure
- Programming languages
- Exercises
14:00 Break
14:15 Control Builder Professional
- Control Modules
- Measuring
- Exercises
16:00 End of day 2

Day 3
08:30 Links of the AC 800M and devices
08:45 Connection to S800 I/O
09:30 Break
09:45 Control of drives
- DDCS
- Exercise
10:30 Control Builder Professional
- Diagnosis
- Helps
- Manuals
12:00 Lunch
13:00 SW construction
14:00 Break
14:15 Recap of the course
15:00 End of the course
Learning path

ACS800 Learning Paths

Would you like to take a course via the Internet?

- Yes
  - ACS800 Single Drive Fundamentals
    - Internet course

- No
  - ACS800 Single Drive Fundamentals
    - 1 day

Would you have knowledge of ACS600 single drives?

- Yes
  - ACS800 Single Drive Fundamentals
    - 1 day

- No
  - ACS800 Single Drive Fundamentals
    - 2 days

Would you like to take a course via the Internet?

- Yes
  - ACS800 liquid-cooled drives
    - Internet course

- No
  - ACS800 liquid-cooled drives
    - 1 day

Would you like to take a course via the Internet?

- Yes
  - ACS800 Multidrive Fundamentals
    - Internet course

- No
  - ACS800 Multidrive Fundamentals
    - 2.5 days

Would you like to take a course via the Internet?

- Yes
  - ACS800 Multidrive Operation and Maintenance
    - 2.5 days

- No
  - ACS800 Multidrive Operation and Maintenance
    - 1.5 days

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