

Course description

G152e

ACS800 single drive fundamentals Internet course

Course Duration

The course duration is approximately 1-2 days depending on personal background knowledge and study pace. For those familiar with ACS600 products it is typically one day. This course is a prerequisite for G152 classroom course.

Course type

Internet course

Course Goal

The goal of this course is to teach students the basics of the installation, start-up, adjustment, operation, maintenance, troubleshooting and reparation of ACS800 single drives.

Student Profile

This course is intended for electricians, technicians and engineers, who install, operate and service ACS800 single drives.

Prerequisites

- Basic knowledge of electronics
- Experience in using a computer and Internet browser. The recommended browser is Microsoft Internet Explorer version 5.0 or later.
- An Internet connection

Description

This course includes self-study material, self-assessment questions and interactive exercises (e.g. operating the Assistant panel). This course belongs to a learning path that utilizes blended learning. Please see the accompanying figure of possible learning paths.

Course Objectives

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

- Describe the functions of the ACS800 drive
- Describe the hardware structure of the product
- Use the functions of the control panel
- Activate and use the ACS800 software
- Describe the basics of installation, commissioning and service operations for the ACS800 single drives
- Describe the basic principles of fault tracing

Main Topics

- Overview of the ACS800 features
- Hardware construction
- Component and board functions
- ACS800 standard application program
- Control panel functions
- Optional equipment overview
- Preventive maintenance
- Fault tracing principles
- Installation principles
- Basic service operations
- Overview of adaptive programming
- DriveAP adaptive programming tool operations
- DriveWindow commissioning and maintenance tool operations

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Course description

G152

ACS800 single drive, start-up, maintenance and service hands-on training

Course Duration

The course duration is 3 days.

Course type

This is a classroom course with hands-on lab activities supported by an instructor. Theory-based internet course G152e needs to be studied before attending to this course.

Course Goal

The goal of this course is to teach students to install, start-up, adjust, operate, maintain, troubleshoot and repair ACS800 single drives.

The training covers the following types and constructs:

- ACS800-01
- ACS800-02 R7 or ACS800-04 R8
- ACS800-11 on request

Student Profile

This course is intended for electricians, technicians, and engineers who install, operate and service ACS800 single drives.

Prerequisites

- Basic knowledge of electronics
- Experience in using a Windows PC
- Course G152e.

Please refer to the accompanying figure for course names and durations.

Description

This course contains hands-on exercises and fault tracing with ACS800 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:

- Commission and tune ACS800 single drives
- Trace and correct faults
- Operate and maintain ACS800 single drives

Main Topics

- Hardware and software overview
- Component and board functions
- Reading and interpreting circuit diagrams
- ACS800 standard application program
- Control panel functions
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Fine tuning of the converter
- Fault tracing methods
- Installation principles
- Adaptive programming
- Optional equipment overview
- Adaptive programming
- DriveAP adaptive programming tool operations
- DriveWindow commissioning and maintenance tool operations

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