

## Course description

# G166e

## ACH550 standard drive, fundamentals

### Internet course

#### Course Duration

The duration is 2 day, but the time spend depends on personal professional background and study pace of the learner. This course is a prerequisite for G166 classroom course.

#### Course type

Internet course

#### Course Goal

The goal of this course is to teach students the basics of installation, start-up, adjustment, operation, maintenance, troubleshooting and repair of the ACH550 Standard drive.

#### Student Profile

This course is intended for electricians, technicians and engineers, who install, operate and service ACH550 drives.

#### Prerequisites

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

#### Description

This course contains 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.

After this e-learning training, learner can take hands-on classroom course (G166) on the ACH550 drive.

#### Course Objectives

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

- Describe the functions of the ACH550 drive
- Describe the hardware structure of the product
- Use the HVAC Control Panel (ACS-CP-B)
- Describe the basics of installation, commissioning and service operations for the ACH550
- Describe the basic principles of fault-tracing

#### Main Topics

- Overview of the ACH550 features
- Hardware construction
- Component and board functions
- ACH550 application program
- HVAC Control Panel functions
- Optional equipment overview
- Fieldbus communication
- Fault tracing principles
- Installation principles
- Basic service operations
- DriveWindow Light commissioning and maintenance tool operations

#### Low Voltage Drives Training

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## Course description

# G166

# ACH550 standard drive, start-up, maintenance and service hands-on training

### Course Duration

The course duration is 1 day. Theory part of the course is in e-learning course G166e (prerequisite).

### Course type

Classroom course with hands-on lab activities supported by an instructor

### Course Goal

The main goal of this course is to teach students to install, start-up, adjust, operate and maintain the ACH550 drive. Some topics how to do basic troubleshooting and basic repair are also covered.

### Student Profile

This course is intended for electricians, technicians, and engineers, who install, operate and service ACH550 drives.

### Prerequisites

Before attending this course, students should have

- Basic knowledge of electronics / electricity
- Experience in using PCs in the Windows environment
- Completed the Internet course ACH550 Standard Drive: Fundamentals (G166e)

### Description

This hands-on-course contains hands-on exercises with ACH550 units. 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:

- Installation and commission the ACH550 drive.
- Trace and correct basic troubles.
- Operate and maintain the ACH550 drive.

### Main Topics

- Locating and identifying terminals, boards and other components with the circuit diagrams
- HVAC Assistant Control Panel (ACS-CP-B) functions
- Mechanical Installation and the cabling
- Commissioning and maintenance
- DriveWindow Light, commissioning and maintenance tool operations

### Side topics if requested

- FlashDrop and DrivePM, programming and maintenance tool

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