

G890

ACS580MV Operation and Maintenance

Course Description

Course Goal

The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of the ACS580MV.

Through various training methods the students will develop their knowledge and skills in troubleshooting and maintenance work.

Learning Objectives

Upon completion of this course the participants will be able to:

- Understand the protection and safety concepts of the drive.
- Identify drive components, configure settings and understand the drive system topology.
- Operate the drive, familiar with the control panel and the parameters.
- Carry out maintenance tasks.
- Perform basic troubleshooting tasks, using data loggers, fault loggers and DriveComposer tools.

Participant Profile

This training is targeted to electricians, technicians and engineers who will operate, maintain or troubleshooting the ACS580MV drive system. This course is only suit for the end user.

Prerequisites

Basic knowledge on asynchronous machine and drive.
Well using of MS Windows based computers.



Topics

- Overview
- Control hardware
- Power hardware
- Site inspection and safety
- Operation
- Application software
- Software tools
- Protection concept
- Preventive Maintenance
- Troubleshooting

Course Type and Methods

This is an instructor led course with classroom discussion and demo unit practice, about 50% hours for hands-on exercises.

Duration

The duration is 3 days.

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Day 1	Day 2	Day 3
<ul style="list-style-type: none"> ▪ Product overview <ul style="list-style-type: none"> ▪ System configurations ▪ Technical data and options ▪ Control hardware <ul style="list-style-type: none"> ▪ Control boards ▪ I/O and optional modules ▪ Auxiliary power supply ▪ Hands-on exercises <ul style="list-style-type: none"> ▪ Identify the components ▪ Analysis the drawing 	<ul style="list-style-type: none"> ▪ Power hardware <ul style="list-style-type: none"> ▪ Main circuit diagram ▪ Phase modules ▪ Charging and discharging ▪ Air cooling principle ▪ Application software <ul style="list-style-type: none"> ▪ Software functions ▪ Parameters setting ▪ Hands-on exercises <ul style="list-style-type: none"> ▪ ACS-AP control panel ▪ DriveComposer tools 	<ul style="list-style-type: none"> ▪ Site inspection and safety <ul style="list-style-type: none"> ▪ Preconditions ▪ Field safety ▪ Protection concept <ul style="list-style-type: none"> ▪ Fault and trip level ▪ Troubleshooting ▪ Preventive maintenance <ul style="list-style-type: none"> ▪ PM introduction ▪ Maintenance schedule ▪ Hands-on exercises <ul style="list-style-type: none"> ▪ Operation the drive ▪ Monitor the running ▪ Troubleshooting ▪ Function testing ▪ Measure and replace the phase module