

Course description

G390

ACS580-01/04 basics hands-on course

Course Duration

The course duration is 2 day

Course Type and Description

The ACS580-01/04 basics learning event comprises of two parts: e-learning courses and classroom course.

This is the second part of the learning event: the classroom course including hands-on lab activities with ACS580-01 demo units supported by an instructor. Theory-based internet courses needs to be studied before attending to this course.

The first part of the learning event includes the theory based e-learning courses mentioned in prerequisites. Please note that the e-learning course material is not covered during the classroom course. You are required to complete the e-learning part before the classroom part, which is essential in order to be able to succeed in the hands-on lab activities during classroom days. The status of e-learning courses completion is monitored.

Student Profile

This course is intended for electricians, technicians, designers and engineers, who install, operate, program and do basic maintenance to ACS580-01 drives.

Course Goal

The goal of this course is to introduce students to ACS580-01 Drive.

Course Objectives

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

- Install ACS580-01/04 drive
- Do start-up of ACS580-01/04 drive using control panel
- Use Drive composer entry PC tool and do start-up of ACS580 using the tool
- Do basic maintenance tasks on ACS580-01/04

Prerequisites

- Basic knowledge about electronics
- Basic knowledge about drives
- English language communication and understanding skills
- E-learning courses:
 - G020e – LV AC drives general installation practises
 - G3900e – General purpose drives, ACS580 series offering
 - G3901e – ACS580-01 installation
 - G3905e – ACS580-01 technical hardware details
 - G3911e – ACS580 standard control program specific features
 - G374e – All-compatible panel fundamentals
 - G375e – Drive composer entry tool fundamentals
 - G381e – All compatible software common features

Main Topics

- Start-up of the drive
- ACS580-01/04 hardware construction
- Installation principles of ACS580-01/04
- ACS580-01 control panel operation
- ACS580-01 software features
- Drive composer entry
- Basic maintenance tasks of ACS580-01/04 drive

Course description

G393

ACS580-01 basic service

Course Duration

The course duration is 0.5 day

Course type

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

Course Goal

The goal of this course is to introduce students to ACS580-01 single drive Basic service tasks.

Student Profile

This course is intended for basic level service engineers who perform basic service tasks on ACS580-01, single drives.

Prerequisites

- Access to IHMM
- Knowledge about electronics
- Knowledge about drives concerned
- Multimeter proficiency
- PC computer proficiency
- English language communication and understanding skills

Hands on courses: G390

Description

This course contains hands-on exercises with ACS580-01 demo units and ACS580-01 frames

Course Objectives

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

- Find service related documents in IHMM
- Understand safe work practices
- Perform useful measurements on ACS580-01 single drive
- Perform basic maintenance tasks on ACS580-01 single drives
- Perform basic trouble shooting on unpowered ACS580-01 single drive

Main Topics

- Safe work practices
- Safe measurement practices
- Drive FW update
- Panel FW update
- Panel screen shot handling
- CCA-01 cold configuration wand usage
- Control board replacement and STO verification
- Rectifier bridge measurement on a unpowered drive
- IGBT measurement on a unpowered drive
- IHMM documentation about service

Course agenda

G393

ACS580-01 basic service

Day program

09:00	Course Information
09:15	Exercises begin
10:30	Coffee break
10:45	Exercises continues
11:45	Finishing up the course (Checkup of assembly of the drives served and cleanup)
12:00	End of the day

The course program times may be changed by instructor.