Course description

G390
ACS580-01 basics
hands-on course

Course Duration
The course duration is 1,5 day

Course Type and Description
The ACS580-01 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 drive
- Do start-up of ACS580-01 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
- Use Adaptive programming tool

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 hardware construction
- Installation principles of ACS580-01
- ACS580-01 control panel operation
- ACS580-01 software features
- Drive composer entry
- Drive Adaptive programming tool
- Basic maintenance tasks of ACS580-01 drives

Low voltage drives training
ABB University Finland, Helsinki Training Center
Helsinki.abbuniversity@fi.abb.com
www.abb.com/abbuniversity

Power and productivity
for a better world™ ABB
Course agenda

G390
ACS580-01 basics
hands-on course

Day 1 program

09:00     Course Information
09:15     ACS580-01 information
09:30     Exercises begin
10:30     Coffee break
10:45     Exercises continues
12:00     Lunch
12:45     Exercises continues
14:00     Coffee break
14:15     Exercises continues
16:00     End of the day

Day 2 program

09:00     Exercises continues
10:30     Coffee break
10:45     Exercises continues
12:00     Lunch
12:45     Finishing up the course
13:00     End of the course

Exercises:

1:     Control panel and start-up exercise
2:     Drive composer entry exercise
3:     Component location exercise
4:     Cooling fan exchange exercise
5:     Installation check exercise
6:     Adaptive programming exercise