

COURSE DESCRIPTION

G390

ACS580-01 Basics Hands-on Course



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.



Course Objective

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



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



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
- G374e – All-compatible panel fundamentals
- G375e – Drive composer entry tool fundamentals
- G381e – All compatible software common features



Course Duration

The course duration is 1.5 day.



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.

Day 1

09:00 Course Information
09:15 ACS580-01 Information
09:30 Exercises Begin
10:30 Coffee Break
10:45 Exercises Continue
12:00 Lunch
12:45 Exercises Continue
14:00 Coffee Break
14:15 Exercises Continue
16:00 End of the Day

Day 2

09:00 Exercises Continue
10:30 Coffee Break
10:45 Exercises Continue
12:00 Lunch
12:45 Finishing up the Course
13:00 End of the Course

Exercise 1

Control panel and Start up Exercise

Exercise 2

Drive Composer Entry Exercise

Exercise 3

Component Location Exercise

Exercise 4

Cooling Fan Exchange Exercise

Exercise 5

Installation Check Exercise

Exercise 6

Adaptive Programming Exercise

Street address
ABB Oy
Training Center
Strömbergintie 1 Aa
00380 Helsinki, Finland

Mailing address
ABB Oy
Training Center
P.O. Box 116
00381 Helsinki, Finland

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