**COURSE DESCRIPTION**

**G390V**

**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 a remote classroom course with hands-on lab activities supported remotely by an instructor. Before this course the theory based e-learning courses, listed in the prerequisites, need to be studied.

This course contains remote hands-on ACS580 exercises and remote exercise with video demonstration. The course belongs to a certificates that may utilize blended learning. The status of e-learning courses completion is monitored.

**Student equipment**
At least one ACS580 democase, PC with drive composer program and USB C-mini cable are mandatory. Two students can work together on the equipment.

**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
  - G3911e – ACS580 standard control program specific features
  - 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  ACS580-01 Installation Check Exercise
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  Component location and Cooling Fan Exchange
10:15  Coffee Break
10:30  Exercises Continue
12:00  End of the Course

Exercise 1
Installation Check Exercise

Exercise 2
Control panel and Start up Exercise

Exercise 3
Drive Composer Entry Exercise

Exercise 4
Component Location Exercise

Exercise 5
Cooling Fan Exchange Exercise

Exercise 6
Adaptive Programming Exercise