COURSE DESCRIPTION

G980 ACS8080 Operation & Maintenance
Classroom training in Turgi, Switzerland

Course goal
The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of the ACS8080. Through various training methods, the students will develop their knowledge, confidence and skills in the handling of this Multi-Level Voltage Source Inverter.

Main learning objectives
The course goal is to teach students to operate, maintain and troubleshoot the ACS8080 drive. Upon completion of this course, students will be able to locate the hardware components, to verify and replace drive’s parts and to perform preventive maintenance. The use of the available programming and troubleshooting tools is trained by practical operating exercises.

Participant profile
Electricians, technicians and engineers who operate, maintain or troubleshoot ACS8080

Prerequisites
— Basic knowledge of AC motors and drives
— Basic knowledge using computers with Windows

Topics
Generalities
— ACS8080 family overview, system requirements
— AC motor, DTC and MP³C control
— Medium voltage safety requirements

Hardware description
(power electronics & control)
— Component and PCB functions
— Hardware schematics and electrical drawings
— PCB settings and configuration

Operation
— Safety requirements
— Energize / de-energize the drive,
— Local operation with drive control panel and DriveComposer tool
— Remote control

Software introduction
— Software structure, parameter’s description
— Application configuration, parameter

Fault tracing and troubleshooting
— Alarm and fault indications
— Checking and replacing PCB’s and components
— Using DriveComposer SW tool for configuration and troubleshooting
— How to get help from ABB
**Course type**
This is a face to face class room training with maximum 8 participants.

**Learning methods and tools**
— Lectures and demonstrations
— Practical exercises on fully operational training drive and other training equipment
— Factory visit

**Duration**
3 days

**To register:**
Please apply online (signup required):
ABB MyLearning/G980
Custom-tailored training courses or standard training at additional course dates are available on request.

**Please note:** The course is only carried out if at least 4 participants have been booked.

**Course outline**

<table>
<thead>
<tr>
<th>DAY 1</th>
<th>DAY 2</th>
<th>DAY 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>— Course overview</td>
<td>— Control HW</td>
<td>— Preventive maintenance</td>
</tr>
<tr>
<td>— Product overview</td>
<td>— Protection concept</td>
<td>— Hands-on training: troubleshooting exercises, parts measurements and replacement</td>
</tr>
<tr>
<td>— Power electronics hardware: description and function</td>
<td>— Hands-on: Software tool Drive Composer</td>
<td></td>
</tr>
<tr>
<td>— Hands-on Training: Operation of the drive</td>
<td>— Hands-on training: Application Software</td>
<td></td>
</tr>
<tr>
<td></td>
<td>— Factory visit</td>
<td></td>
</tr>
</tbody>
</table>

Classroom training  
Hands-on training