COURSE DESCRIPTION

G981 ACS8080
Service & Commissioning training

Course goal
The goal of this course is to introduce the ACS8080 Variable Frequency Drive to the field service engineers and to teach them in a safe and instructive environment the techniques required to carry out the correct procedure in commissioning, servicing and maintaining this drive.

Main learning objectives
Upon completion of this course, the participants will be able to:
- Understand the drive system topology
- Carry out basic commissioning, service and maintenance work as well as fault-tracing
- Verify and modify drive parameters
- Locate and replace faulty hardware components
- Using MV Drive Portal database to update the knowledge of the drive, get familiar with spare parts and warranty issues handling
- Start the certification program for commissioning; after completion of the certification program the participants are allowed to commission the medium voltage drive system
- Successful completion of the e-learning course (G981e)
- By applying for the G981 course, the participant will be enrolled automatically into the free e-learning course G981e

E-learning topics
Generalities
- ABB medium voltage drives family overview
- Three-level inverter topology, DTC and MP3C control
- Options and typical applications

Hardware description
- Component and PCB functions
- Main circuit diagrams
- PCB settings and configuration

Protection concept
- Fault classes
- Protective reactions

Classroom topics
Generalities
- MV data base instruction
- Software compatibility and downloading sequence
- How to use software tools
- How to give a short customer training

Participant profile
Commissioning, field service, testing and maintenance personnel of ABB or certified technical partners.

Prerequisites
- Good engineering knowledge of AC drives and motors
- Personal computer knowledge
- Laptop with DriveComposer Pro and DriveStartup loaded

E-mail: ch-learningcenter-mwdrives@abb.com
Visit our page
mylearning.abb.com
after commissioning

**Demonstration drives**
- Component recognition and location
- Starting/Stopping procedures
- Motor runs and tuning

**Drive commissioning**
- System requirements, preconditions for commissioning
- Commissioning procedure, application configuration
- Using DriveComposer Pro and DriveStartUp for reporting and commissioning

**Software description**
- Software structure, parameter’s description
- Pass codes, service parameters

**Fault-tracing and troubleshooting**
- Alarm and fault indications
- Measuring and replacing PCB’s and power components

**Methods**
- e-Learning, web-based course
- Lectures and demonstrations
- Practical exercises with training equipment

**Follow-up training**
- MV ACS Drives Expert Days

**Duration**
Ca. 2 days e-learning
4 days classroom training
Max. 8 participants

**To register:**
Please apply online (signup required):
ABB MyLearning/G981

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.

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**Course outline**

<table>
<thead>
<tr>
<th>DAY 1</th>
<th>DAY 2</th>
<th>DAY 3</th>
<th>DAY 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>MV database instruction</td>
<td>Commissioning manual</td>
<td>First energizes the Drive</td>
<td>Preventive maintenance</td>
</tr>
<tr>
<td>Component recognition and location</td>
<td>Cold commissioning procedure with DriveStartUp</td>
<td>First start the motor</td>
<td>Checking/exchanging semiconductors</td>
</tr>
<tr>
<td>Software downloading</td>
<td>Passcode, service parameters</td>
<td>Motor model test and optimization</td>
<td>Troubleshooting procedure</td>
</tr>
<tr>
<td>Drive system specifications</td>
<td>Replacing the phase modules</td>
<td>Common Problems during commissioning</td>
<td>Troubleshooting exercises</td>
</tr>
</tbody>
</table>

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Classroom training

Hands-on training

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