COURSE DESCRIPTION

G730 ACS5000 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 ACS5000.

Main learning objectives
Upon completion of this course, the 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 the ACS5000 drive

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

Topics
Generalities
– ABB medium voltage drives family overview
– ACS5000 5-level inverter topology and DTC control

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

Water cooling system
– Cooling circuit description
– Preventive maintenance

Operation
– Energize / de-energize, start-stop sequence
– Local operation with drive control panel and DriveWindow tool

Software introduction
– Software structure, parameters description
– Application configuration, parameter

Fault tracing and troubleshooting
– Alarm and fault indications
– Checking and replacing PCB’s and components
– Using DriveWindow SW tool for configuration and troubleshooting
– Getting help from ABB

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**Course type**
This is a face to face class room training with maximum 8 participants.

**Learning methods**
- Lectures and demonstrations
- Practical exercises with training equipment
- Factory visit

**Duration**
4 days

**To register:**
Please apply online (signup required):
Motion Upskill/ G730
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**

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Classroom training

Hands-on training