COURSE DESCRIPTION

G731 ACS5000 Air-Cooled Operation & Maintenance

Course goal
The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of the air cooled 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 air cooled 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
— ACS5000 air cooled characteristics

Air 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

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
3 days
To register:
Please apply online (signup required):
ABB MyLearning/G731
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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<td>— Drive system requirements</td>
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<td>— Hands-on: Operation of the drive</td>
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<td>— Hands-on: SW tool DriveWindow</td>
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<td>— Hands-on: Troubleshooting, fault finding exercises</td>
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Classroom training

Hands-on training