
COURSE DESCRIPTION

G732 ACS5000 Water-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 water 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 water 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

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

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): [ABB MyLearning/G732](#)

Custom-tailored training courses or standard training at additional course dates are available on request.

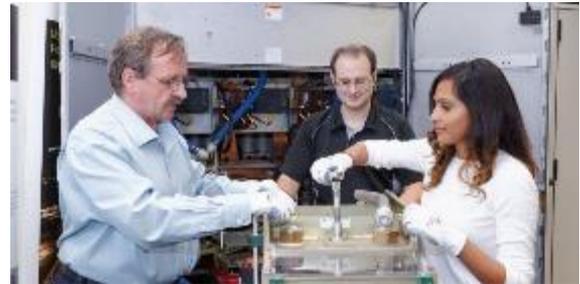
Please note: The course is only carried out if at least 4 participants have been booked.

Course outline

DAY 1	DAY 2	DAY 3	DAY 4
<ul style="list-style-type: none"> – Course overview – Product overview – Power Part description: PCU – Control Unit 	<ul style="list-style-type: none"> – Excitation Unit (Optional) – Water Cooling Unit – Hands-on: Checking/replacing semiconductors – Factory visit 	<ul style="list-style-type: none"> – Hands On: Operation of the drive – Hands On: Software tool DriveWindow – Application SW – Drive system requirements – Protection concept 	<ul style="list-style-type: none"> – Protection concept – Hands-on: Troubleshooting, fault finding exercises – Preventive Maintenance



Classroom training



Hands-on training