

Course description

G770

ACS 2000 Medium Voltage Drive Operation and Maintenance

Course goal

The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of the ACS 2000. Through various training methods the students will develop their knowledge, confidence and skills in the handling of this Multi Level Voltage Source Inverter.

Learning objectives

Upon completion of this course the participants will be able to:

- Know the protection and safety concepts of the drive
- Identify drive components, configure settings and understand the drive system topology
- Operate the drive, energizing, de-energizing, start, stop and adjust speeds
- Carry out maintenance tasks
- Perform basic troubleshooting tasks, using data loggers, fault loggers and DriveWindow

Participant profile

This training is targeted to electricians, technicians and engineers who will operate, maintain or troubleshoot the ACS 2000 drive system.

Prerequisites

- Basic knowledge on use of MS Windows based computers
- Training and documents will be in English.

Topics

- Overview
- Control hardware
- Power hardware
- Operation
- Installation of the drive system
- Software



- SW tool DriveWindow
- Protection concept
- Hands-on training
- Preventive maintenance
- Troubleshooting

Methods

This is an instructor led course with lectures and demonstrations
Practical exercises with training equipment
Factory visit

Follow-up training

G794 DriveMonitor™ Operation & Maintenance

Duration

3 days
Max. 8 participants
Tailor made and on-site training courses on request

Course description

G770

ACS 2000 Medium Voltage Drive Operation and Maintenance

Course outline

Day 1	Day 2	Day 3
<ul style="list-style-type: none">■ Course overview■ Control hardware■ Power hardware■ Operation	<ul style="list-style-type: none">■ Installation of the drive system■ Software■ SW tool DriveWindow■ Protection concept■ Factory visit	<ul style="list-style-type: none">■ Hands-on training■ Preventive maintenance■ Troubleshooting■ Course conclusion & feedback

Course description

G780

ACS 2000 Medium Voltage Drive Service and Commissioning

Course goal

The goal of the course is to introduce and instruct the service and commissioning engineer to the ACS 2000. To allow them to learn in a safe and instructive environment the techniques required to carry out the correct procedure in commissioning, servicing and maintaining the ACS 2000.

Learning objectives

Upon completion of this course the participants will be able to:

- Identify drive components, configure settings and understand the drive system topology
- Know the protection and safety concepts of the drive
- Operate the drive, energizing, de-energizing, start, stop and adjust speeds
- Carry out service and maintenance work as well as fault-tracing and be able to locate and replace faulty hardware components
- Carry out the commissioning of the ACS 2000 drive system in the most efficient manner using the corresponding tools
- Perform basic troubleshooting tasks, using data loggers, fault loggers and DriveWindow
- Start the certification program for commissioning, after completion of the certification program the participants are allowed to commission the medium voltage drive system

Participant profile

Commissioning and service engineers, testing and maintenance personnel of ABB or certified technical partners

Prerequisites

- Good knowledge of AC motor and drive engineering
- Good personal computer skills
- Laptop with DriveDebug and DriveWindow loaded, fiber optic programming tool (RUSB-02 or PCMCIA equivalent)



Topics

- Product overview
- Drive technology
- Control hardware
- Power hardware
- Installation of the drive
- Operation
- Application software
- Software tools
- Protection concept
- Commissioning
- Preventative maintenance
- Troubleshooting

Methods

This is an instructor led course with lectures and demonstrations

Practical exercises with training equipment
Factory visit

Follow-up training

- G795 DriveMonitor™ Service & Commissioning
- ACS 2000 Expert Days

Duration

4 days
Max. 8 participants

Course description

G780

ACS 2000 Medium Voltage Drive Service and Commissioning

Course outline

Day 1	Day 2	Day 3	Day 4
<ul style="list-style-type: none">■ Welcome■ Course overview■ Product overview■ Control hardware■ Power hardware	<ul style="list-style-type: none">■ Installation of the drive system■ Operation■ Protection concept■ Application SW■ Factory visit	<ul style="list-style-type: none">■ SW tools■ Commissioning tools■ Hands-on training■ Troubleshooting	<ul style="list-style-type: none">■ Hands-on training■ Troubleshooting■ Preventance maintenance■ Course conclusinn & feedback

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