

CURRICULUM DESCRIPTION (9TPC002061-US-EN)

DCS880 Training

DASC (Drive Authorized Service Contractor)

Tuition Fee

Value: \$4,650

Tuition is at no cost to DASC Members. See "[Training Class Cancellation Policy](#)" for details.

Description

This program is specifically designed to provide students with the part replacement knowledge and exercises to service and repair drives in the field. The class will cover safe working practices, basic troubleshooting for major drive components, and disassembly/reassembly of LV DC drives. This DASC Service training program focuses primarily on the H1-H6 drives.

Training Type and Duration

This program is 12 hours (1.5 days) of instructor-led training that includes hands-on lab exercises to achieve program objectives.

Student Profile

This program is intended for electricians, technicians, and engineers responsible for installing, servicing, and maintaining the DCS880 drives. The student must be an employee of an authorized DASC company.

Prerequisites

Participants must have:

- DCS880 Authorized Startup
- Experience working with power electrical equipment and voltage levels up to 690VAC
- Ability to use test equipment such as multi-meters or oscilloscopes and basic computer skills
- Familiarity with PC-based drives commissioning tools
- Completed all the eLearning modules prior to attending the classroom training

Goal

The objective of this program is to teach students to adjust, operate, maintain, troubleshoot, and repair the DCS880 Drive using the available programming and troubleshooting tools. All workshops must be completed to pass the class.

Learning Objectives

Upon successful completion of this program, students will obtain the following:

- Gain skills to apply basic safe work practices for troubleshooting and repair of LV DC Drives
- Understand the risks associated with LV DC Drives
- Commission a DCS880 using fieldbus communications
- Overview of the H1-H8 hardware
- Understanding Technical Details/Issues
- Perform basic commissioning fault diagnostics and quickly correct installation issues on site
- Learn how to update Firmware
- Perform repair/replacement of faulty components

Student Materials

Upon completion each student will receive:

- Student manual with all presentations and exercises

Training locations and scheduling

This is a classroom training held in New Berlin Wisconsin. For a schedule of other training opportunities please visit the Drives, PLC and Motion Training website at:

<http://new.abb.com/service/training/abb-university/united-states/drives>.

Agenda

<p>Day 1</p> <p>8:00 a.m. ~ 5:00 p.m.</p> <ul style="list-style-type: none">• DCS880 Connectivity• DCS880 Modbus TCP Lab• DCS880 Hardware H1-H4 20-1000• DCS880 Hardware H5-H8 900-5200• DCS880 Tech Support Issues• DCS880 Technical Details• DCS880 H1-H8 Service Lab• Troubleshooting Faults Lab	<p>Day 2</p> <p>8:00 a.m. ~ 12:30 p.m.</p> <ul style="list-style-type: none">• Warranty Directive for Low Voltage Drives Products DCS880• DC Power-Up Service Lab Exercise• DCS880 FW Update Lab• DCS880 H1 - H4 Repair Lab• DCS880 H5 - H8 Repair Lab
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Note: Students will have access to ABB provided laptop with software and tools used in the training at no additional cost. Students who wish to use their own PC's for training are required to purchase, install, and test the current software versions prior to attending a classroom training event. ABB will not troubleshoot student owned PC's.

