

## CURRICULUM DESCRIPTION

# ACS880 Multidrives DASC

### Tuition Fee

Tuition is \$1780 for authorized Channel Partners.  
This training is NOT open to non-Channel Partners.

### Description

This course is designed to provide Drives Authorized Service Contractors with the parts replacement knowledge and exercises to service and repair ACS880 multidrives in the field. The course will cover safe working practices, basic troubleshooting for major drive components, and disassembly/reassembly of LV multidrives. The ACS880 DASC (for wall-mount drives) and ACS880 Multidrives ASU programs are required prerequisites.

### Student Profile

This program is intended for ABB authorized channel partners who have contracts with ABB. Students would be responsible for technical services and repair related to maintaining low voltage multidrives.

### Training Type and Duration

This program is offered as a combination of online instruction and classroom Instructor-led presentations and hands-on lab exercises for approximately **(1.4) days**. Students will complete online modules before attending the classroom training. This course also includes approximately **4+ hours of prerequisite eLearning**.

### Prerequisites

Participants must have:

- ACS880 DASC Training (Wall-Mount Drives)
- ACS880 Multidrives ASU Training
- Experience working with power electrical equipment and voltage levels of up to 690Vac
- The ability to use test equipment such as multi-meters and oscilloscopes
- Knowledge of LV AC Drive theory and operation
- An understanding of basic motor control
- Familiarity with product commissioning PC tools, and basic computer skills
- The physical ability to assist in maneuvering large-frame drive modules on wheels, up to R8i frame, which can weigh up to 275 lbs. each

### Goal

The goal of this course is to teach students to maintain, troubleshoot, and repair ACS880 Low Voltage Multidrives using available programming and trouble-shooting tools. This DASC Training program focuses heavily on air-cooled Multidrives up to 6500HP.

### Learning Objectives

Upon successful completion of this training, participants will obtain the following ...

- Knowledge of safe work practices while they maintain, troubleshoot, and repair LV Multidrives
- Understanding of the risks associated with LV Multidrives
- Understanding of required maintenance associated with the upkeep of LV Multidrives
- Experience diagnosing onsite problems and correcting faults associated with LV Multidrives
- Knowledge and experience repairing & replacing faulty hardware components

### Student Materials

Upon completion each student will receive:

- 1 Student Manual with all training materials
- All necessary ACS880 hardware and firmware manuals (upon request, in PDF format)

### Drive Authorized Service

The DASC program is comprised of third-party companies in the US and Canada and is used to provide start-up and on-site repair services for ABB LV Drive products. DASC participants are authorized to repair ABB LV Drives, which are warranty or non-warranty. Warranty repairs are managed by ABB LV Drives Technical Support. Non-warranty repairs are managed by the authorized DASC company.

### Information to become an authorized DASC

Contact the local district office in your area to obtain an application for DASC authorization. The application is subject to an approval process. Students can enroll in DASC programs when the application reaches a pending status.

## Training locations and scheduling

This training is accomplished using eLearning and in-person instruction. For a schedule of other training opportunities please visit the Drives, PLC and Motion Training website at:

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

## Course Agenda

Day 1	Day 2
8 AM – 5 PM <ul style="list-style-type: none"><li>• Course Introduction</li><li>• Multidrives Maintenance</li><li>• ACS880-07 MD Circuit Boards</li><li>• ACS880 MD Troubleshooting</li><li>• ACS880 R8i Dis-Assembly (Lab)</li><li>• Day 1 - Dismissal</li></ul>	8 AM – 11 AM <ul style="list-style-type: none"><li>• ACS880 R8i Dis-Assembly (Lab) continued</li><li>• BINT Rating ID Instructions</li><li>• ACS880 Rating ID Lab</li><li>• Warranty Specifics</li><li>• ACS880 Product Specific Warranty</li><li>• ABB Warranty Directive</li><li>• Distributed IO Bus</li><li>• Survey</li><li>• Day 2 - Dismissal</li></ul>

