

## CURRICULUM DESCRIPTION

# ACS550 DASC Training

## DASC (Drives Authorized Service Contractor)

### Tuition Fee

Tuition is \$1,780 for authorized DASC Members.  
This training is NOT open to non-DASC Members.

### 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 instructor-led class will cover safe working practices, basic troubleshooting for major drive components, disassembly, and reassembly of LV drives.

### Student Profile

This program is intended for electricians, technicians, and engineers responsible for installing, servicing, and maintaining the ACS550 Drives. The student must be an employee of a DASC company. If the student is not an employee of said company, please contact ABB Training for a more appropriate program.

### Training Type and Duration

This curriculum is a 1 day, instructor-led training class that includes lab exercises to achieve course objectives. The US9120 program includes prerequisite e-learning courses, which should be completed before attending the class. This DASC Service training program focuses on wall-mount drives up to 200HP.

### Prerequisites

Participants must have:

- ACS550 or ACH550 Authorized Startup Program
- Experience working with power electrical equipment and voltage levels of up to 690Vac
- Knowledgeable in using test equipment such as multi-meters, oscilloscope, and computer skills
- Basic understanding of LV AC Drives
- Understanding of basic motor control
- Understanding of LV AC Drive operation
- Product operational knowledge of the ACS550
- Attended a product overview training program for the ACS550
- Familiarity with product commissioning PC tools

### Goal

The goal of this program is to teach students to adjust, operate, maintain, troubleshoot, and repair the ACS550 AC Drive using available programming and troubleshooting tools.

### Learning Objectives

Upon successful completion of this training, participants will be able to ...

- ... Apply basic safe work practices for installation and commissioning of LV Drives
- ... Understand the risks associated with LV Drives
- ... Gain complete understanding of the installation requirements for a LV AC Drive
- ... Perform fault diagnostics and quickly correct installation issues on site
- ... Troubleshoot and correct faults using available tools
- ... Repair and replace faulty hardware

### Student Materials

Upon completion each student will receive:

- Student binder with all training materials
- Product manuals

### Drives Authorized Service Contractor (DASC) Program

The DASC program comprises of third party companies in the US and Canada to provide Startup and on-site repair services for ABB LV Drive products. DASC participants who have received Authorized Startup training certification are authorized to repair ABB LV drives. The repair may be 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 your local sales rep for 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.

## Agenda

<b>Day 1</b>
8:00AM – 5:10PM
Course Introduction
DASC Policy and Procedure Review
Troubleshooting Faults Worksheet Lab
Troubleshooting Faults Doc
Block Diagrams
Static Checks Lab
Question & Answer Review
Hardware Component Replacement Lab

*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.*

