

## CURRICULUM DESCRIPTION

# ACH550 DASC Training

## DASC (Drives Authorized Service Contractor)

### Tuition Fee

Value, \$1780; offered at no charge for DASC members.  
See ["Training Class Cancellation Policy"](#) for details.  
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 class will cover safe working practices, basic troubleshooting for major drive components, and disassembly and reassembly of LV drives. This DASC Service training program focuses on wall-mount drives up to 200HP.

### Student Profile

This program is intended for electricians, technicians, and engineers responsible for installing, servicing and maintaining the ACH550 drives. The student must be an employee of an authorized DASC company. If the student is not an employee of said company, please contact ABB Training for a more appropriate course.

### Training Type and Duration

This curriculum is 2.5 days of instructor-led training that includes lab exercises to achieve course objectives. The US9110 program contains prerequisite e-learning courses which must be completed prior to attending the class.

### Prerequisites

Participants must have:

- 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, oscilloscopes, and computer skills
- Basic understanding of LV AC Drives
- Understanding of basic motor control
- Understanding of LV AC Drive operation
- ACH550 product operational knowledge
- Completed the ACH550 Product Overview Program
- Familiar with product commissioning PC tools

### Goal

The goal of this training is to teach students to adjust, operate, maintain, troubleshoot, and repair the ACH550 AC Drive, using available programming and troubleshooting tools.

### Learning Objectives

Upon successful completion of this training, students 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
- Apply best wiring practices for LV Drives
- Commission an ACH550 drive including fieldbus communications
- Perform basic commissioning fault diagnostics and quickly correct installation issues on site
- Troubleshoot and correct faults using available tools
- Repair and replace faulty hardware
- Program and trouble shoot the drive via Drives Window Light

### Student Materials

Upon completion each student will receive:

- Student binder with all training materials
- Product manuals
- The Basic Guide to Installing an AC Drive
- The Basic Guide to Commissioning the ACH550

### 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.

Day 1	Day 2	Day 3
8:00AM – 5:05PM	8:00AM – 4:45PM	8:00AM –1:30pm

Introduction / About This Course / Lab Safety Procedures	ACx550 Troubleshooting and Faults	DriveWindow Light Lab Exercise & Lab Exercise Review
ACH550 Basic Analog Startup Lab	E-Clipse Startup Lab	ACH550 Communications / CAS BACnet Explorer Lab Exercise
ACH550 Supply Fan Macro Lab	ACH550 Troubleshooting Faults and Alarms Lab Exercise	ACH550 Communications / CAS BACnet Explorer Lab Exercise
Parameter Configurations (Groups 1-11 and 16)	ACH550 Troubleshooting Faults and Alarms Worksheet Lab Exercise	
Parameter Configurations Lab Exercise (Groups 1-11 and 16) Lab	(Factory Tour)	ABB Authorized Startup Procedure and Policies DIB
Parameter Configurations Lab Exercise (Groups 1-11 and 16) Lab	ACH550 Base Hardware Schematics	DASC Policy and Procedures
Parameter Configurations (Groups 20-26)	ACH550 Base Hardware Static Checks Lab	
Parameter Configurations Lab Exercise (Groups 20-26)	ACx550 Fan and Control Board Replacement	
Parameter Configurations Lab Exercise (Groups 1-11 and 16)	ACS550 Hardware Lab Component Replacements	
Process Variable Programming / Supervision Groups (32 & 34)	Drive Services	
Process Variable Programming / Supervision Lab Exercise		

## Agenda

*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.*

