

ACQ580 Training

DASC (Drives Authorized Service Contractor)

Tuition

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 and reassembly of LV drives. This DASC Service training program focuses on wall-mount drives up to 350HP.

Goals

The objective of this program is to teach students to adjust, operate, maintain, troubleshoot, and repair the ACQ580 AC Drive and Packages using available programming and troubleshooting tools. All workshops must be completed to pass the class.

Training Type and Duration

This curriculum is 24 hours (3 days) using a combination of eLearning and instructor-led classroom training, including approximately 85% hands-on lab exercises.

Student Profile

This program is intended for electricians, technicians, and engineers responsible for installing, servicing and maintaining the ACQ580 drive packages. 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 program.

Prerequisites

Participants must have:

- ACQ580 Authorized Startup
- Experience working with power electrical equipment and voltage levels of up to 690Vac
- Knowledgeable in using test equipment such as multi-meters, oscilloscopes, etc.
- Familiarity with PC-based drives commissioning tools
- Completed all associated eLearning modules prior to enrolling in the Instructor Led classroom training

Drives Authorized Service Contractor 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 DASC 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 on how to become an authorized DASC

Contact the local district office or Regional Sales Engineer 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.

Learning Objectives

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

- Apply basic safe work practices for installation, commissioning, troubleshooting and repair of LV Drives
- Define the risks associated with LV Drives
- Identify proper ACQ580 hardware mounting details for various drive frame sizes
- Program and troubleshoot the drive using the Composer Pro PC tool
- Commission and troubleshoot ACQ580 packages including communications
- Repair and / or replace faulty hardware
- Perform basic commissioning fault diagnostics and quickly correct installation issues on site.

Student Materials

Upon completion each student will receive:

- Student manual with all presentations and exercises.

Agenda

Day 1	Day 2	Day 3
<p>8:00 a.m. - 5:00 p.m. ACX580 (ACS ACH ACQ)</p> <ul style="list-style-type: none"> • Welcome and Introductions • Software Flow Diag (Start/Ref/Speed/Torque Chain) • Introduction to Drive Composer Tool (Lab Exercise) • ACX580 Platform Solutions Connectivity • ACQ580 Modbus TCP/IP Lab • 80 Series Drives Technical Details • Block Diagram/Hardware (R1-R9 Wall Mount) • 80 Series Drives Circuit Board Review • 80 Series Drives Faults & Alarms • Static Checks Review - What to Look for 	<p>8:00 a.m. - 5:00 p.m. ACX580 (ACS ACH ACQ)</p> <ul style="list-style-type: none"> • Component Replace. Procedures (R6-R9 Wall Mnt) • FW Upgrades • Warranty Directive / Repair / Replacement • Parts Doc's/Supp's/Matrix/Knowl. Base/ • Component Replace. Procedures (R1-R5 Wall Mnt) • Troubleshooting Lab 	<p>8:00 a.m. - 5:00 p.m. Day 3 (ACQ)</p> <ul style="list-style-type: none"> • Troubleshooting Lab cont. • ACQ580 ULH Overview and Commissioning • Class Evaluations

Note: Students will have access to ABB provided Laptops 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.

Students should also bring their personal Lock Out Tag Out lock or one will be provided at students expense.

