

# ACS550 Usage & Maintenance Training

## Program Description

**Tuition Fee - \$1780 per student**

### Usage & Maintenance for the ACS550

This program is specifically designed to provide students with the knowledge and hands-on experience to properly apply the ACS550 drives and maximize their useful life. The program will cover safe working practices, installation, commissioning, preventative maintenance and basic troubleshooting. This training will aid the customer in reducing product down time and give them the knowledge to decrease total cost of ownership.

### Program Goals

The goal of this program is to educate students to install, start-up, adjust, operate, maintain, and troubleshoot the ACS550 AC Drives using available programming and troubleshooting tools.

### Program Type and Duration

The instructor-led class is 2.5 days of training that includes hands-on lab exercises to achieve course objectives. The US9130 program contains prerequisite e-learning courses that must be completed before class begins.

### Student Profile

This program is intended for electricians, technicians, service and maintenance personnel, or engineers responsible for installing, servicing or maintaining AC Drives.

### Program Prerequisites

- Experience working with power electrical equipment and voltage levels up to 690Vac
- The ability and knowledge for use of test equipment such as multi-meters or oscilloscope and basic computer skills
- A basic understanding of LV AC Drives
- An understanding of basic motor control

### Program Objectives

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

- Apply basic safe work practices for installation and commissioning of LV Drives
- Understand the risks associated with LV Drives
- Complete understanding of the installation requirements for a LV AC Drive
- Apply best wiring practices for LV Drives
- Commission an ACS550
- Program and utilize standard software features of the drives
- Monitor signals in the ACS550 control panel for configuration and troubleshooting
- Understand how to utilize the macros available in the ACS550 drive
- Configure and apply supervisory functions available in the ACS550
- Use supervisory functions to automatically generate maintenance reminders on auxiliary mechanical equipment
- Perform basic fault diagnostics and quickly correct installation issues on site
- Troubleshoot and correct faults using available tools
- Plan and perform preventative maintenance on the ACS550 drive

### Training class locations and scheduling

The instructor-led class is offered at an authorized local district training facility as defined in our published schedule. Scheduling of a training class is managed by your local distributor and ABB's LV and MV Product Training group. Please contact your local distributor for pricing, availability, and scheduling.

### Student Materials

Upon completion of the instructor-led class, each student will receive:

- Student manual with all training materials including practice labs
- The Basic Guide to Installing an AC Drive
- The ACS550 User Manual

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### Instructor-Led Class - Agenda

Day 1	Day 2	Day 3
8:00AM – 5:00PM	8:00AM – 5:45PM	8:00AM – 10:30AM
Course introduction	Speed Regulator Tuning Lab	Static Checks Lab
Basic Analog Startup Lab	Process Variable Programming & Supervision (Groups 32 & 34)	
Hand-Auto Macro and Review Lab	Process Variable Programming & Supervision (Groups 32 & 34) Lab	
Parameter Configurations Lab	DriveWindow Light Lab	
Parameter Configuration (Groups 20-26)	Modbus TCP – Fieldbus Communications Lab	
Parameter Configurations Lab (Groups 20-26)	Faults and Warnings Lab	
	Troubleshooting Faults worksheet & Lab	

