CURRICULUM DESCRIPTION

ACS550 Training

Usage & Maintenance

Tuition
$4,650 per student

Description
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.

Training 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.

Training location and scheduling
This program is offered at our New Berlin, WI training facility. Please visit the Drives, PLC and Motion Training Schedule for a list of upcoming classes.

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

Learning Objectives
The objective 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.

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

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

Agenda

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