

ACQ550 Usage and Maintenance Training

Program Description

Tuition Fee - \$1780 per student

ACQ550 Usage and Maintenance

This program is designed to provide students with the knowledge and hands-on experience to properly apply the ACQ550 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 knowledge to decrease total cost of ownership.

Student Profile

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

Program Type and Duration

This program is 2.5 days of instructor-led training that includes lab exercises to achieve program objectives. The USQ9130 program contains prerequisite e-learning programs. It is recommended that students complete these e-learning programs before attending the class.

Program Objectives

The objective of this program is to educate students to install, Startup, adjust, operate, maintain, and troubleshoot the ACQ550 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 ACQ550
- Program and utilize standard software features of the drives
- Monitor signals in the ACQ550 control panel for configuration and troubleshooting
- Understand how to utilize the macros available in the ACQ550 drive
- Configure and apply supervisory functions available in the ACQ550
- 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 ACQ550 drive

Program Prerequisites

- Experience working with power electrical equipment and voltage levels up to 690Vac
- Knowledgeable in using test equipment such as multi-meters, oscilloscope and basic computer skills
- Basic understanding of LV AC Drives
- Understanding of basic motor control

Training locations 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.

Student Materials

Each student will receive upon completion of the program:

- Student manual with all training materials including practice labs
- The Basic Guide to Installing an AC Drive
- The ACQ550 User Manual

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Program 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	

