

ACQ800 Usage & Maintenance Training Program Description

Tuition Fee - \$1780 per student

Usage & Maintenance for the ACQ800

This program is specifically designed to provide students with the knowledge and hands-on experience to properly apply the ACQ800 drive and maximize its useful life. The class 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 teach students to install, start-up, adjust, operate, maintain, and troubleshoot the ACQ800 AC Drive using available programming and troubleshooting tools.

Program Type and Duration

This program is a 2.5 day instructor-led training that includes lab exercises to achieve program objectives. The US9379 program includes prerequisite e-learning courses that must be completed before class begins.

Student Profile

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

Prerequisites

- Experience working with power electrical equipment and voltage levels up to 690Vac
- Knowledgeable using of test equipment such as multi-meters, oscilloscopes, and basic computer skills
- Basic understanding of LV AC Drives
- 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 ACQ800
- Program and utilize standard software features of the drive
- Read and follow software flow diagrams and monitor signals in the ACQ800 control panel
- Understand how to utilize the macros available in the ACQ800 drive
- Configure and apply supervisory functions available in the ACQ800
- 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 ACQ800 drive

Training class 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 ACQ800 Firmware Manual
- The ACQ800 software flow diagrams

Program Description

Course Agenda

Day 1	Day 2	Day 3
8:00AM - 5:00PM <ul style="list-style-type: none">• Course Introduction• Commissioning (ID Run types)• Analog Startup Lab• Hand-Auto Macro Lab• Software Flow Diag. (sig's, start & ref. 1-4, 9-11)• Software Flow Diag. Lab (sig's, start & ref. 1-4, 9-11)• Software Flow Diag (20-26)• Software Flow Diag Lab (20-26)	8:00AM - 4:45PM <ul style="list-style-type: none">• Speed regulator Tuning Lab• Process Variable Prog. & Supervisories Lab• Faults & Warnings Lab• Troubleshooting Worksheet/Lab Exercise• Schematics Overview• Hardware Static Check Lab	8:00AM - 1:55PM <ul style="list-style-type: none">• Drive Window Lab• Modbus TCP - Fieldbus Lab• (Optional) Lead Follower Speed Lab

