

CURRICULUM DESCRIPTION

ACS800 Training Usage & Maintenance

Tuition Fee

\$4,650 per student

Description

This program is designed to provide students with the knowledge and hands-on experience to properly apply the ACS800 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.

Training Type and Duration

This course is a 2.5 day instructor-led training that includes lab exercises to achieve course objectives. The US9124 program includes prerequisite e-learning courses that must be completed before class begins.

Student Profile

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

Training location and scheduling

This course 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
- 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

Learning Objectives

The objective of this course is to teach students to install, start-up, adjust, operate, maintain, and troubleshoot the ACS800 AC Drive using available programming and troubleshooting tools.

Upon successful completion of this course, 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 ACS800
- Program and utilize standard software features of the drive
- Read and follow software flow diagrams and monitor signals in the ACS800 control panel
- Understand how to utilize the macros available in the ACS800 drive
- Configure and apply supervisory functions available in the ACS800
- 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 ACS800 drive

Student Materials

Each student will receive upon completion of the course:

- Student manual with all training materials including practice labs
- The Basic Guide to Installing an AC Drive
- The ACS800 Firmware Manual
- The ACS800 software flow diagrams

Agenda

Day 1	Day 2	Day 3
8:00 a.m. – 5:00 p.m. <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)	8:00 a.m. – 4:45 p.m. <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	8:00 a.m. – 1:55 p.m. <ul style="list-style-type: none">• Drive Window Lab• Modbus TCP – Fieldbus Lab• (Optional) Lead Follower Speed Lab