

## CURRICULUM DESCRIPTION

# ACS880 Authorized Start-Up Training

### Tuition Fee

Tuition is \$625 per student.

### Description

The Authorized Start-up training provides the student with comprehensive instruction in the installation, wiring, and commissioning of LV Drives. The curriculum combines on-line, instructor-led, and hands-on lab exercise training.

The Authorized Start-up training program for ACS880 drives incorporates hands-on commissioning of a wall-mount drive. Training focuses heavily on wall-mount drives (up to 350 HP). It also includes e-Learning and video modules regarding commissioning of ACS880-07 cabinet drives (up to 700 HP). The program includes commissioning practices for standard analog controlled installation and installations utilizing the integrated control panel.

### Student Profile

This program is intended for ABB authorized channel partners with experience working with and installing LV Drives. Students of an Authorized Start-up program would be responsible for installation and technical services related to maintaining LV Drives.

### Training Type and Duration

This program is offered as a combo video-led on-line instruction and classroom Instructor-led hands-on lab exercises (1) day. Students will complete online modules before attending the classroom training.

### Prerequisites

Participants must have:

- Experience working with power electrical equipment and voltage levels of up to 690Vac
- The ability to use test equipment such as multi-meters and oscilloscopes
- Knowledge of LV AC Drive theory and operation
- An understanding of basic motor control
- Product operational knowledge of the ACS880
- Product overview training program for the ACS880
- Familiarity with product commissioning PC tools, and basic computer skills

### Goal

To provide students with the necessary information, tools, and training to be able to assess a LV Drive installation, to configure the drive, tune the drive, and perform complete commissioning services.

### Learning Objectives

Upon successful completion of this training, participants will obtain the following...

- Knowledge of safe work practices for installation and commissioning of LV Drives
- Understanding of the risks associated with LV Variable Frequency Drives
- Complete understanding of the installation requirements for a LV AC Drive
- Best wiring practices for LV Drives
- Experience commissioning an ACS880 utilizing the integrated control panel
- Experience diagnosing and correcting installation and programming-related faults/problems on site

### Student Materials

Upon completion each student will receive:

- 1 Student Manual with all training materials
- All necessary ACS880 hardware and firmware manuals (upon request, in PDF format)

### Authorized Start-Up Program

The Authorized Start-up program provides channel partner's trained technicians with the knowledge and capability to Start-up LV Drives. The Authorized technician can perform and verify the drive is installed and configured properly for service in the application. When the drive is commissioned and Authorized, the product's warranty is enhanced per the supplemental warranty document.

### Channel Partner advantages:

- Additional customer engagement & satisfaction
- Extended installed life of drive product
- Differentiation from box mover or web purchase
- Authorized Start-up is a component of life cycle management

Customer benefits:

- Properly installed and commissioning drive
- Enhanced warranty per the supplemental document
- Extended life of drive product
- Increased production and process up time

Course Agenda

Day 1 (8AM – 5:30 PM)

- Course Introduction
- Installation Start-up Review Presentation
- Review of prerequisite video/e-Learning modules
- Power Labs Safety Presentation
- Basic Wiring & Power-up Lab
- Analog Start-up Lab
- Drivetune-Functions Lab
- (Optional) Programming Exercise Labs
- Authorized Startup Summary:
- Drives Installed Base
- Warranty Registration Process
- Class Survey
- Summary & Conclusion

