

CURRICULUM DESCRIPTION

ACS880 Advanced Training Authorized Startup

Tuition

Value: \$3,400

Tuition is at no cost to Channel Partners. See [“Training Class Cancellation Policy”](#) for details.

Description

This program provides the student with comprehensive instruction in the installation, wiring, and commissioning of LV Drives.

The training program for the ACS880 Regenerative and Low Harmonic drives focuses on installation, wiring and commissioning of regenerative/ULH (wall-mount) and regenerative/ULH floor-mount drives from 5 up to 1475HP. The course includes commissioning practices for standard analog controlled installations utilizing fieldbus communications.

Training Type and Duration

This curriculum is 24 hours (2-days) of instructor-led training. In addition, eLearning pre-requisites prepare students for classroom sessions. Approximately 70% of the program is hands-on lab exercises.

Student Profile

This program is intended for authorized channel partners with experience working with and installing LV Drives. Students of this course would be responsible for installation and technical services related to ACS880-11/31, ACS880-17 or ACS880-37 AC drives.

Prerequisites

Participants must have:

- Experience working with power electrical equipment and voltage levels of up to 690Vac
- Basic understanding of LV AC Drives
- Understanding of basic motor control
- Understanding of LV AC Drive operation
- Product operational knowledge of the ACS880
- Familiar with product commissioning PC tools

Learning Objectives

The objective of this program is to provide students with the information, skills and tools necessary to commission and operate the ACS880 regenerative and Ultra low Harmonic drive. The focus is for the student to be self-sufficient in properly installing, programming and commissioning the drive.

Upon successful completion of this training, students will be able to:

- Apply basic safe work practices for installation and commissioning of LV Drives
- Understand the risks associated with LV Drives and avoid situations that would jeopardize safety
- Apply the installation requirements for an ACS880 Regenerative and Ultra Low Harmonic AC Drive
- Apply best wiring practices for LV Drives
- Commission an ACS880 wall or cabinet drive including fieldbus communications to meet specifications
- Perform basic fault diagnostics and quickly correct installation and operational issues on site

Student Materials

Upon completion each student will receive:

- Student manual with all presentations and exercises
- Product Installation and Commissioning manuals

Training locations and scheduling

This training is a combination of eLearning and Instructor led class. For a schedule of other training opportunities please visit the Drives, PLC and Motion Training website at: <http://new.abb.com/service/abb-university/united-states/drives>.

Agenda

Day 1	Day 2
8:00 AM – 5:00 PM <ul style="list-style-type: none">• Introduction/Course Overview• ACS880-11, -31, -17, -37 Product Review• Mechanical Installation• Electrical Installation• Best Wiring Practices• Control Panel & Macros• Commissioning (ID Run types)• Lab Overview• Analog Startup Lab• Hand-Auto Macro Lab• Before & after applying power (commissioning)	8:00 AM – 5:00 PM <ul style="list-style-type: none">• Speed Regulator Tuning Lab• Process Variables, Programing/Custom Keypad & Supervision (Groups 31-32, Display)• Faults & Warnings Lab• Drive Composer Presentation/Demo• Drive Composer Pro Lab• Modbus TCP – Fieldbus Lab

Note: Students will have access to ABB provided laptop with software and tools used in the training at no additional cost. Students who wish to use their own PC's for training are required to purchase, install, and test the current software versions prior to attending a classroom training event. ABB will not troubleshoot student owned PC's.

