

## CURRICULUM DESCRIPTION

# ACS880 Multidrives Installation & Commissioning Training

### Tuition Fee

Tuition is \$625 per student.

### Description

The Installation & Commissioning Training program provides the student with comprehensive instruction in the installation, wiring, and commissioning of Low Voltage Drives. The curriculum combines online, instructor led, and hands-on lab exercise training.

The Installation & Commissioning Training program for ACS880 Multidrives incorporates hands-on startup, which focuses heavily on air-cooled multidrives. It also includes presentations and e-Learning courses regarding the various multidrive “Modules” as well as liquid-cooled multidrives (up to 6500 hp). The program includes commissioning practices for both air-cooled and liquid-cooled ACS880 Multidrives.

### Student Profile

This program is intended for ABB authorized channel partners who work with and install low voltage multidrives. Students would be responsible for installation and technical services related to maintaining low voltage multidrives.

### Training Type and Duration

This program is offered as a combination of online instruction and classroom Instructor-led presentations and hands-on lab exercises for **(1) day**. Students will complete online modules before attending the classroom training. This course also includes approximately **4+ hours of prerequisite eLearning**.

### Prerequisites

Participants must have:

- ACS880 ASU / Install & Commissioning Training
- 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

- 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 low voltage multidrive installation, to configure the drive, navigate the proper startup sequence, and perform complete commissioning services.

### Learning Objectives

Upon successful completion of this training, participants will obtain the following regarding ACS880 Multidrives...

- Knowledge of safe work practices for installation and commissioning
- Understanding of the risks associated
- Complete understanding of the installation requirements
- Best wiring practices
- Experience commissioning an ACS880 utilizing the integrated control panel
- Experience diagnosing and correcting installation and commissioning-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)

### Installation & Commissioning Program

The program provides customers, end users, and trained technicians with the knowledge and capability to start-up LV Drives. The technician can perform and verify the drive is installed and configured properly for service in the application.

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
- Increased production and process up time

## Course Agenda

Day 1
<b>8 AM – 4:45 PM</b> <ul style="list-style-type: none"> <li>• Course Introduction</li> <li>• Multidrive Options &amp; Product Review</li> <li>• ACS880 MD Mechanical Installation</li> <li>• ACS880 MD Electrical Installation</li> <li>• ACS880 MD Cooling Loop</li> <li>• ACS880 MD Liquid Cooled Circuit Concepts</li> <li>• ACS880-07 Cabinet Hardware ID Lab Exercise</li> <li>• ACS880-x7 Multidrive Startup Lab</li> <li>• ACS880 Multidrives Troubleshooting</li> <li>• Summary</li> <li>• Survey</li> <li>• Class Dismissal</li> </ul>

