

CURRICULUM DESCRIPTION (9TPC001226-US-EN)

DCS880 Training

Authorized Startup

Tuition Fee

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 (low voltage) DC (direct current) drive including commissioning for frame size H1-H8 modules, and practices for standard analog controlled installation, and installations utilizing fieldbus communications.

Training Type and Duration

This curriculum is 16 hours (2 days) using a combination of eLearning and instructor-led classroom training, including approximately 40 % hands-on lab exercises.

Student Profile

This program is intended for ABB OEM authorized channel partners with experience working with and installing LV DC Drives. The students are responsible for installation and technical services related to installation LV DC Drives.

Prerequisites

Participants must have:

- competence using Microsoft Windows®
- basic knowledge of motors, motor control, power electronics, and electrical circuits.

Goal

This program provides customers, end users, and trained technicians with the knowledge and capability to Start-Up DCS880 Drives. The technician can perform the drive installation and configure the drive properly for service in the application.

Learning Objectives

Upon successful completion of this program, students will obtain the following:

- Gain skills to apply basic safe work practices for installation and commissioning of LV DC Drives
- Understand the risks associated with LV DC Drives
- Understanding the installation requirements for a LV DC Drive
- Apply best wiring practices for LV DC Drives
- Commission an DCS880 including fieldbus communications
- Perform basic commissioning fault diagnostics and quickly correct installation issues on site

Student Materials

Upon completion each student will receive:

- Student manual with all presentations and exercises
- Product Installation and Commissioning manuals in PDF format.

Training locations and scheduling

This is a classroom training held in New Berlin Wisconsin. For a schedule of other training opportunities please visit the Drives, PLC and Motion Training website at:

<http://new.abb.com/service/training/abb-university/united-states/drives>.

Agenda

<p>Day 1</p> <p>8:00 a.m. ~ 5:00 p.m.</p> <ul style="list-style-type: none">• Welcome and Introductions• DCS880 Technical Presentation• DCS880 Dimensioning and Configuration• DCS880 Installation Mechanical• DCS880 Installation Electrical• Power Labs Exercise Safety• Basic Wiring & Power Up Lab	<p>Day 2</p> <p>8:00 a.m. ~ 5:00 p.m.</p> <ul style="list-style-type: none">• DCS880 Keypad Commissioning & Macros• DCS880 Basic Commissioning Lab Exercise• DCS880 Before and After Power Up• DCS880 Field Supplies• Introduction to Drive Composer Lab Exercise• DCS880 12-Pulse & Hard Paralleling Power Units• DCS880 Functional Safety STO• Q&A Session - Wrap up• Class Evaluations
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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.

