



ACH580 Training

Installation & Commissioning

Tuition Fee

\$3,400 per student

Description

The Installation & Commissioning training program for the ACH580 drives provides participants with comprehensive instruction in the installation, wiring, and commissioning of LV Drives. The program focuses on both wall mount, E-Clipse Bypass and enclosure installations of drives up to 350HP. This training includes commissioning practices for both standard analog controlled and for fieldbus communications controlled applications.

Goals

The goal of this program is to provide participants with the information, skills, tools, and training necessary to be self-sufficient in assessing and properly installing the ACH580 VFD with and without E-Clipse bypass, including configuring the drive, tuning the drive, and performing complete commissioning services.

Training Type and Duration

This curriculum is 16 hours (2 days) using a combination of eLearning and instructor-led classroom training, including approximately 55% hands-on lab exercises.

Student Profile

The program is intended for those that are experienced working with and installing LV Drives. Students who complete the Installation & Commissioning program would be responsible for installation and technical services related to maintaining LV Drives.

Prerequisites

Participants must have:

- Experience working with power electrical equipment and voltage levels of up to 690Vac
- Understanding of basic motor control and LV AC Drives
- Operational knowledge of the ACH580 product
- Competence using Microsoft Windows® computers
- Familiarity with PC-based drives commissioning tools
- Completed all associated eLearning modules prior to enrolling in the Instructor Led classroom training

Installation & Commissioning Program

The Installation & Commissioning program provides trained technicians with the knowledge and capability to safely startup LV Drives. Trained technicians can perform and authorize that the drive is installed and configured properly for service in the application.

Advantages:

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

Learning Objectives

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

- Apply basic safe work practices for installation and commissioning of LV Drives
- Define the risks associated with LV Drives
- Identify proper ACH580 hardware mounting details for various drive frame sizes
- Apply best wiring practices for ACH580 electrical connections for the motor voltage and for control I/O
- Commission an ACH580 including 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
- The Basic Guide to Installing an ACH580 Drive

Agenda

eLearning	Classroom	Classroom
<p>Pre-Requisites</p> <ul style="list-style-type: none"> • Qualification for Power Equipment – (US0010t) • Lock-Out-Tag-Out-Confirmation – (9CSC000688t) • LV_Drive_Safety-Presentation – (US1008e) • LV_Drive_Safety-Presentation Video – (US1008v) • ACxxxx Product Introduction – (9TPC000xxx) 	<p>Day 1</p> <p>8:00 a.m. ~ 5:00 p.m.</p> <ul style="list-style-type: none"> • Welcome and Introductions • ACX580 Installation-Mechanical (Wall-Mount) • ACX580 Installation-Electrical (Wall-Mount) • Commissioning using Primary Settings • PPE & LOTO Review & Lab Exercise Preview • ACH580 Basic Wiring / Power-up Lab Exercise • ACX580 Before & After Applying Pwr (Commissioning) • ACX580 Review - Assign Homework (Common Parameters) 	<p>Day 2</p> <p>8:00 a.m. ~ 5:00 p.m.</p> <ul style="list-style-type: none"> • ACH580 Review / Open Quiz (Common Parameters) • ACH580 Basic Start-up Lab Exercise - Power Applied • ACH580 Advanced Features Lab Exercise - Power Applied • E-Clipse Wiring and Installation • E-Clipse Programing • E-Clipse Programing Lab • ACH580 Connectivity • ACH580 ULH Overview and Commissioning • ACx580 Tech Support Issues • Installation Start-up Review • Warranty Registration, Startup ProceduresQ&A Session - Wrap-up • Class Evaluations

Note: Students will have access to ABB provided Laptops 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.

