

CURRICULUM DESCRIPTION

ACS800-77LC Usage & Maintenance Training

Tuition Fee

\$7,400 per student

Description

This program provides the student with comprehensive instruction in the safe working practices, installation, commissioning, product structure, component location, maintenance, fault indications and repair of the ACS800-77LC cabinet and drives.

Student Profile

This program is intended for electricians, technicians, service/maintenance personnel, and engineers who install, operate, maintain and service ACS800-77LC Wind Turbine drives.

Training Type and Duration

This curriculum is 16 hours (2 days) using a combination of eLearning and instructor-led classroom training, including approximately 60 % hands-on lab exercises.

Prerequisites

Participants must have:

- Familiarity with PC-based drives commissioning tools
- Basic knowledge of motors, motor control, power electronics, and electrical circuits
- Experience working with power at voltages above 480Vac
- Completed all the eLearning modules prior to attending the classroom training

Goal

To provide individuals listed in the student profile with the knowledge and capability to work on the ACS800-77LC cabinet and drives listed in the description.

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 ACS800-77LC Wind Turbine Drives
- Be aware of and understand the risks associated with wind turbine drives
- Program and utilize standard software features of the drive
- Locate parts in the ACS800-77 liquid cooled cabinet
- Locate and remove parts from the liquid cooled drives
- Understand how to navigate and utilize the Drive Window software
- Navigate an ACS800-77LC cabinet electrical and communication wiring diagram

Student Materials

Upon completion each student will receive:

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

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

Classroom	Classroom
<p>Day 1</p> <p>8:00 a.m. ~ 5:00 p.m.</p> <ul style="list-style-type: none">• Welcome and Introductions• ACS800-77LC Product Structure• ACS800-77LC Inverter• ACS800-77LC System Functionality• ACS800-77LC Installation• DriveWindow 2• DriveWindow Walkthrough• ACS800-77LC Turbine Commissioning	<p>Day 2</p> <p>8:00 a.m. ~ 5:00 p.m.</p> <ul style="list-style-type: none">• ACS800-77LC Component Review• ACS800-77LC Maintenance• ACS800-77LC Fault Indications• Reading Schematic Diagrams• Power Cabinet Schematics• Module and Control Schematics• ACS800-77LC Repair• Q&A Session - Wrap up• Class Evaluations

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.

