Course description

G164
ACS800-77LC, operation and maintenance

Course Type

This is a classroom course with hands-on lab activities supported by an instructor.

Course Duration

The course duration is 2 days.

Course Goal

The goal of this course is to teach students to start-up, adjust, operate, maintain, troubleshoot and repair ACS800-77LC Wind Turbine drives.

Student Profile

This course is intended for electricians, technicians, and engineers, who install, operate and service ACS800-77LC Wind Turbine drives.

Prerequisites

Prior to attending this course, students should have

- Basic knowledge of electronics
- Experience in using PCs in the Windows environment

Description

The course contains theoretical presentations and hands-on exercises with ACS800-77 Liquid cooled Wind Turbine Drive unit.

Course Objectives

Upon completion of this course, students will be able to:

- Commission and tune ACS800-77LC drives
- Use the fault tracing methods
- Replace the faulty parts and units
- Operate and maintain ACS800-77LC drives

Main Topics

- Reading and interpreting circuit diagrams
- Installation procedure
- Ethernet adapter communication
- Locating and identifying terminals, boards and other components
- Converter commissioning
- Changing the setting
- Fault indications and maintenance
- DriveWindow commissioning and maintenance tool operations

Low voltage drives training
ABB University Finland, Helsinki Training Center
Helsinki.abbuniversity@fi.abb.com
www.abb.com/abbuniversity

Course agenda

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Day 1

09:00 Introduction of the course

09:15 System presentation

- product structure
- system functionality

10:15 Break

10:30 Installation

- mechanical installation
- electrical installation

11:00 DriveWindow tool

- connections
- functions

11:30 DriveWindow exercises

12:00 Lunch

13:00 DriveWindow exercises continue

14:15 Break

14:30 Commissioning

- safety
- start- up procedure

16:00 End of the day

Day 2

08:30 Maintenance

- annual maintenance
- ethernet adapter functions

09:00 Fault tracing

- fault indications, loggers, inverter

10:00 Break

10:15 Repair

- replacing the cooling fans
- replacing the inverter module

11 :00 Inverter unit and module exercises

- location exercise
- cooling fan exchange exercise

11:45 Lunch

12:30 Inverter module exercise

- module removal
- component location

14:00 Break

14:15 Module installation back to the cabinet

15:00 Ethernet adapter exercise

16:00 End of the course

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