

Course description

GB050

ACS1000 Basic Operator Training

Course goal

The goal of this course is to outline the ACS1000 medium voltage variable speed drive and provide operators with a basic understanding of the hardware and software in order for them to perform 1st line diagnostics.

Training covers the following products:

- ABB ACS1000 VSD
- ABB DriveMonitor

Learning objectives

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

- Interpret the system topology through the “single line diagram”
- Feel confident in reading ABB MV drive electrical drawings
- Interpret the safety interlock loop
- Locally operate the drive using the CDP312 keypad
- Interpret the troubleshooting process
- Interpret the maintenance schedule and be able to carry out some simple maintenance tasks
- Use spare parts list to order parts if required
- Understand the benefits of “DriveMonitor” and how to use the tool to perform basic diagnostics
- Get further help from ABB if required

Participant profile

This course is intended for electricians, technicians, and engineers who operate and maintain ACS1000 drives.

Prerequisites

- Basic knowledge of electronics
- Experience in using a Windows PC



Topics

- Hardware and software overview
- Component and board functions
- Reading and interpreting circuit diagrams
- Basic maintenance operations
- Basic fault tracing
- VSD Earthing procedure and safety tripping loop
- DriveWindow operation and maintenance tool
- DriveMonitor operation

Course type and methods

Classroom course with hands-on activities led by a certified engineer.

Duration

The duration is 1 day