ACS1000 Air Cooled Operation & Maintenance

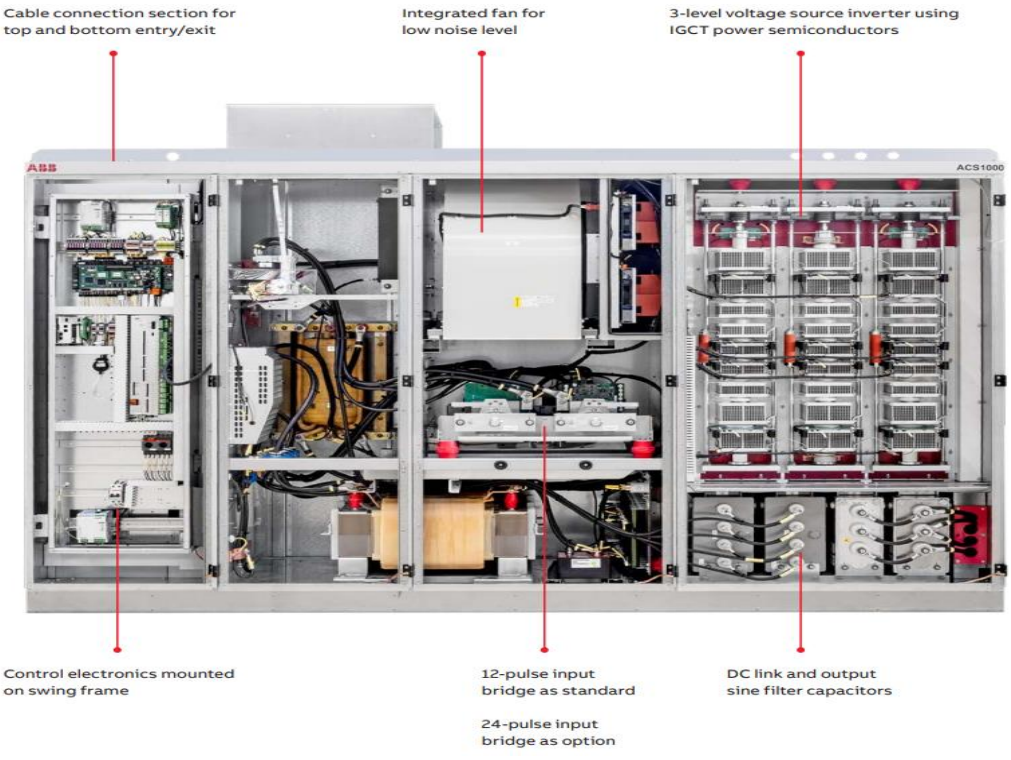
Course goal

The goal of this course is to learn the operation and maintenance aspects of ACS1000 frequency converters.

Main learning objectives

The participants will be able to:

- Identify the hardware components and the installation principles
- Describe the features and advantages of the ACS1000 drive
- Start-up, operate, maintain, and troubleshoot a drive



Topics

- Generalities
  - ACS1000 family overview, system requirements
  - AC motor and DTC control
- Hardware description (power electronics & control)
  - Component and PCB functions
  - Hardware schematics and electrical drawings
  - PCB settings and configuration
- ACS1000i characteristics
- Preventive maintenance Operation
  - Energize / de-energize the drive, start-stop sequence
  - Local operation with drive control panel and Drive Window tool
  - Remote control
- Software introduction
  - Software structure, parameter's description
  - Application configuration, parameter settings
- Fault tracing and troubleshooting
  - Alarm and fault indications
  - Checking and replacing PCB's and components
- Using Drive Window SW tool for configuration and troubleshooting