Course description

G101e_b
Basics of AC drives
Hardware construction

Course type
Internet course

Course Duration
The course duration is approximately 30 minutes.

Course Goal
The goal of this course is to give the student a basic understanding of the hardware construction and main parts of an AC drive.

Student Profile
This course is intended for customers’, ABB and partners’ personnel who want to understand the hardware structure of an AC drive.

Prerequisites
An Internet connection. The recommended browser is Microsoft Internet Explorer.

Notes
If you have no experience of working with drives, it is highly recommended to take a hands-on course in addition to this course, to be able to utilize the drive to its full potential.

Course Objectives
After this course you will be able to:

- List the main parts of an AC drive (frequency converter) and describe its main functions
- Describe different hardware constructions of an AC drive
- Describe electrical braking

Main Topics
- Main components of an AC drive
  - Rectifier
  - DC voltage intermediate circuit
  - Inverter
- Single and multidrives
- Electrical braking
- Cooling methods
- Protection classes