

Course description

G101e_a

Basics of AC drives

Process control and various control methods

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 different process control methods.

Student Profile

This course is intended for customers', ABB and partners' personnel who need to recognize the basic needs for using AC drives.

Prerequisites

- n 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:

- n List the main process control methods
- n Describe why process control is needed
- n Identify various control methods
- n Describe principles of speed, torque and position
- n List general benefits of AC drives

Main Topics

- n Process control methods
- n Process control examples
 - o Mechanical pump speed control
 - o Electrical pump speed control
- n Principles of speed, torque and position
- n Common motor starting methods
- n General benefits of AC drives

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