

# G101 – AC Drive Basics



## Course Type

Classroom course

## Course Duration

The course duration is 1 day.

## Course Goal

The goal of this course is to teach students the basic functions of asynchronous motors and AC drive systems.

## Student Profile

This course is intended for persons who need basic knowledge of AC drives and motors.

## Prerequisites

Prior to attending this course, students should have basic knowledge of electricity.

## Course Objectives

Upon completion of this course, students will be:

- Able to identify main components of AC drives
- Familiar with different AC drive systems
- Familiar with AC motor mechanics and features

## Main Topics

- Load characteristics of machines.
- Basics of AC motors
  - Components and connections
  - Torque and power characteristic
- Basics of AC drives
  - Speed and torque control
- Frequency converter techniques.
- Control techniques of AC drives.
- Exercises.
- Presentation of different AC drives