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