
K315

Motor Fundamentals

COURSE DESCRIPTION

Course goal

The goal of the course is to provide participants with a basic understanding of the principles behind electric motors.

Learning objectives

Upon completion of this course, students will be able to:

- Explain the relationship between current, magnetism, and movement within the induction process
- Identify motor components and explain their purpose
- Gain a basic understanding of motor performance and efficiencies
- Identify potential failure modes

Participant profile

This training is targeted for individuals who work within the electric motor industry, including customers and ABB employees.

Prerequisites

- [Link to BL MOMG Learning paths](#)

Topics

- Student will experience a "hands-on" motor lab and a comprehensive plant tour (if applicable).
- Learn about the different ratings, speeds and enclosures of motors.
- Recognize different families of motors by sight.
- Learn about efficiency and what it means for your applications.
- Discuss NEMA standards and how they relate to HP, RPM, voltage, service factors and frame sizes.
- A brief overview of AC Motor Control Basics

Course type and methods

This is an instructor led course. The language of the course is English.

Course duration

The duration of the course is 2.5 days and is held in Ft. Smith, Arkansas, USA

This course is not scheduled on a calendar basis but is scheduled periodically as need demands. Please continue to check the calendar for future offerings.

BL Motors and Generators training

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