

AC/DC Motors and Drives Fundamentals

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: CCA101

COURSE MODULES & TOPICS

Prerequisites

- Working knowledge of electricity, and knowledge of electrical and industrial safety (including PPE requirements and safe practices)
- Familiarity with the use of electrical measuring tools is helpful, but is not required

Student Materials

- Student Manual contains the topical outlines and exercises. Students will use this manual to follow presentations, take notes, and work through the exercises.
- Miniature DC Motor Kit that students will use to construct a working motor that they can keep.
- AC and DC Motor and Drive Glossary contains a listing of AC and DC drives and motor terms.
- AC and DC Drive Print Set contains schematics of selected Allen-Bradley drives.

Course Agenda

Day 1

- Identifying Electromechanical System Components and Concepts
- Recognizing DC Motor Hardware and Operation
- Recognizing AC Motor Hardware and Operation
- Selecting a Replacement Motor
- Recognizing Line Protection and Filtering Device Hardware and Functions
- Preventing Electrostatic Damage to Drive Components

Day 2

- Recognizing DC Drive Hardware and Functions
- Recognizing AC Drive Hardware and Functions
- Recognizing AC and DC Motor Braking Methods
- Testing a Drive Using Electrical Measuring Tools
- Performing Pre-Power and Power-On Checks
- Monitoring and Controlling a Drive Using The HIM
- Selecting a Drive for Basic Applications

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