

COURSE DESCRIPTION

AC and DC Drives

RSTrainer[®] for Fundamentals of AC and DC Motors and Drives

SELF-PACED LESSONS

- 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
- 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



Course Purpose

This interactive, self-paced training course provides you with a basic understanding of AC and DC motor and drive concepts and terminology and is available in a web-based delivery format.

During the course, you will learn how to recognize AC and DC drive and motor hardware and functions through example drive applications. Through animated simulations, you will learn the various components and functions of drives and motors.

Helpful animations, background information, and links to other reference materials provide you with a variety of knowledge and learning tools. These tools, combined with the step-by-step demonstrations, will provide you with the knowledge and skills required to perform related tasks. You will also have the opportunity to practice performing tasks through interactive simulations. These simulations will guide you through the required steps and give you immediate feedback on your performance to reinforce learning.

You will also be given multiple opportunities to test your knowledge through question and answer sessions. These question and answer sessions will allow you to gauge your knowledge level and help you identify areas for improvement.

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Intended Audience

These e-Learning courses are intended for the following audiences:

- Individuals who prefer self-paced instruction
- Individuals who cannot attend classroom training
- Users of Rockwell Automation AC and DC drives or drive software who need refresher training
- Individuals interested in the features and capabilities of AC and DC drive hardware and software

Prerequisites

To successfully complete this course, you should be able to perform basic Microsoft® Windows® tasks. A general knowledge of electricity and electronics is also recommended.

Learning Activities & Features

Rockwell Automation e-Learning courses include the following features:

- Information overviews
- Discussions of basic principles and/or concepts
- Descriptive and detailed technical explanations
- Animated sequences
- Interactive and integrated practice exercises
- Interactive simulations
- Online help
- Embedded Adobe® Acrobat® PDF files of technical manuals

In addition, the RA University Online web-based training courses offer the following unique features:

- Pre- and post-testing
- Embedded learning management system
- administrative features

To Purchase

To purchase this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office.

You can also access course information via the Web at <http://www.rockwellautomation.com/training>

Catalog Numbers

- Web-based *Fundamentals of AC and DC Motors and Drives* ePass: **WBT1PACK** (equivalent to 1 course)

www.rockwellautomation.com

Power, Control and Information Solutions

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