Drives

PowerFlex 755T Drives Maintenance and Troubleshooting



Course Number
CCA255-LD

Course Purpose
This course will provide you with techniques needed to facilitate operation, maintenance, and troubleshooting of PowerFlex® 755TL, 755TR and 755TM drives.

Upon completion of this course, you will have learned and should be able to perform the following tasks:

- Identify drive hardware and features
- Recognize proper drive and motor operation
- Recognize the significance of all the key parameters
- Troubleshoot drive malfunctions using wiring diagrams, and fault and alarm codes

This course is for private delivery only. Use of equipment on-site is not required.

COURSE AGENDA

DAY 1
- Recognize the PowerFlex 755T Drive Product Line
- Identify PowerFlex 755T Catalog Numbers
- Explain Active Front End Operation
- Recognize and Evaluate Drive Hardware
- Explain How to Troubleshoot PowerFlex 755T Drive Equipment Malfunctions
- Explain Reactor Inductor Filter Protection and Operation
- Identify PowerFlex 755T Drive Insulated Gate Bipolar Transistors and Filters
- Examine the Function of PowerFlex 755T Drive Ports

DAY 2
- Explain How to Use the HIM to Perform a Drive Autotune Startup
- Using Connected Components Workbench™ Software, Explain How to:
  - Locate and Modify Drive Parameters
  - Identify Fault and Alarm Codes
  - Perform a Drive Autotune Startup
  - Upload and Download Drive Parameters
- Explain How to Configure Parameters to Enable Feedback Loss
- Explain How to Configure Parameters to Enable Emergency Override
- Explain How to Configure Parameters for Two AC Line Sources
- Explain How to Configure the Energy Pause Option
- Explain the DC Precharge Operation

Rockwell Automation

Allen-Bradley by ROCKWELL AUTOMATION

WHO SHOULD ATTEND

This course is intended for technicians and electrical maintenance personnel engaged in the maintenance and troubleshooting of PowerFlex 755T drives.

PREREQUISITES

To successfully complete this course, the following prerequisites are required:

- Working knowledge of electricity, and knowledge of electrical and industrial safety (including PPE requirements and safe practices)
- Comprehensive knowledge of electrical principles and circuits
- Working knowledge of PWM drive basics and AC motor theory

TECHNOLOGY REQUIREMENTS

All technology is provided for student use by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

STUDENT MATERIALS

To enhance and facilitate the students' learning experiences, the following materials are provided as part of the course package:

- Student Manual
  - Includes the key concepts, terms, definitions, and examples presented in this course
- Various PowerFlex 750-Series and PowerFlex 755T Drive reference manuals and wiring diagrams

COURSE LENGTH

This is a two-day course.

TO REGISTER

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley® Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

You can also access course information via the Web at **rockwellautomation.com/training**

Connect with us.

AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Allen-Bradley, Connected Components Workbench, expanding human possibility, and PowerFlex are trademarks of Rockwell Automation, Inc.
Trademarks not belonging to Rockwell Automation are property of their respective companies.

Publication GMST10-PP699A-EN-P – May 2020

Copyright © 2020 Rockwell Automation, Inc. All Rights Reserved. Printed in USA.