

## Maintenance Training



**Location: Roanoke, Virginia**

- **4½-day training course for engineering and maintenance personnel**
- **Drive system hardware and software operation, maintenance and troubleshooting**
- **Hands-on classroom and lab exercises**
- **Presented by experienced industry service engineers**

**Students will learn:**

- ✓ Fundamentals of operation for the drive and motor system
- ✓ To monitor, maintain and troubleshoot the drive system
- ✓ To recognize normal and abnormal drive system operation
- ✓ The terminology and meaning of the diagnostic messages
- ✓ To replace and reconfigure components
- ✓ To quickly diagnose and identify externally-connected equipment failures
- ✓ To replace and reconfigure failed components
- ✓ Preventive maintenance procedures

# TMdrive-MVG2 Maintenance Training

## Who should attend?

Qualified engineers and technicians who wish to gain an understanding of the TMdrive®-MVG2 medium voltage drive system should attend this course.

Classes for this 4 day course will normally begin on Monday morning and run from 8 AM to 5 PM through Thursday. Abbreviated versions will be considered on a case by case basis.

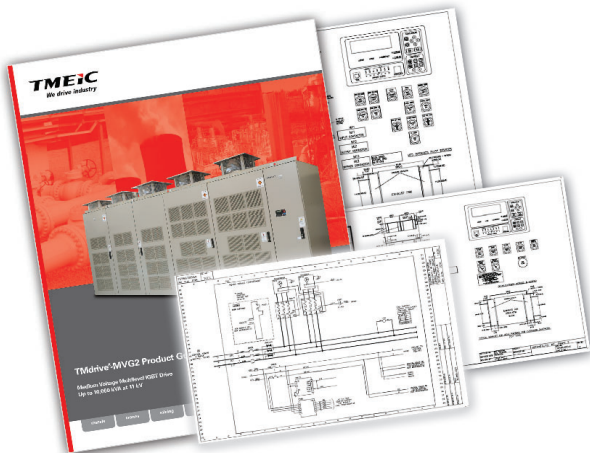
## Prerequisites

- A basic working knowledge of 3-phase electricity, variable speed drives and motors
- A working knowledge of sound safety procedures on MV equipment
- Reasonable personal computer and Microsoft® Windows® skills
- Course materials will be presented in English

## Student Materials

A notebook with paper and electronic copies of the following materials are part of the course package:

- TMdrive®-MVG2 Technical Manuals
- TMdrive®-MVG2 Product Application Guide
- Physical outline drawings
- TMEIC Drive System Elementary and Drive Interface drawings



For more information please contact:

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## Topics

### Definition of Terminology and Acronyms

### General Specifications and Ratings

### Hardware Overview

- Part numbers
- Where to find the component on the electrical drawings
- Physical location of each component
- How to tell if this component is not functioning properly
- How to change out and replace the component
- How to configure the replacement component, if either hardware jumper or software download is required

### Communication Networks - Maintenance and Supervisory

- Basic checking, testing, troubleshooting, replacing, and retesting techniques

### Inspection and Maintenance Schedules

### Maintenance and Diagnostic Tests

### Protective Functions

### Troubleshooting

- Faults and Alarms
- Unique Techniques
- Traceback

### Grounding and Cabling

### The Software Toolbox

- Windows OS Setup
  - Requirements
  - File Structure
  - File Transfer
  - Connecting & Communication with the Drive
- General
  - Menus
  - Windows
  - Trending
  - Animated Block Diagram
- Trending and Recording

### Spare and Renewal Parts

- What is recommended
- How to order