

AC Drive Troubleshooting Seminar October 22-23, 2019 Norcross, GA

No One Anywhere is Better at Drives Than We Are!

Attention ALL AC Variable Frequency Drive Users:

One of the most **common** inquiries we get here at EMA Inc. is for training on AC Solid-State Motor Drives. Often it isn't cost effective to teach on-site schools for a small # of people. Here is a VERY cost effective solution.

We're offering a 2-day, intensive seminar on AC Drives. (PWM)



Course Number	Course Title	CE Points
CE-12-MS-0218-EMA-S-013120-0001	AC Drive Troubleshooting Seminar	12

Who should attend?

ANYONE troubleshooting, maintaining, applying or operating AC Drives. You'll leave this school with a clear & practical understanding of solid- state AC drives, motors and the mechanical/electrical interaction which takes place. You'll learn to recognize classic drive trouble symptoms and quickly resolve common problems. This seminar could easily return your investment with just one instance of reduced downtime due to your increased knowledge. An electronic background will be helpful, but not essential. We'll review the <u>basic</u> electrical laws and component operation you need to know.



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Class Schedule

~ DAY ONE ~

Safety

Drive Application Basics

- *Horsepower/Torque
- *Load Types
- *Typical Applications, Pitfalls and Troubleshooting
- *Harmonics and Noise

Test Equipment and Measuring Methods

- *Component Testing
- *Voltage/Current Measuring Methods, Problems and
- Considerations of Non-sinusoidal Waveforms
- *Oscilloscope Basics and Safety Considerations

Discrete Components and Typical Circuits Overview

- *Passive Components (capacitors, diodes)
- *Active Components (transistors, IGBT's etc.) and
- **Associated Circuits**
- *Inductors, Transformers

~DAY TWO ~

AC Motors

- *Construction & Theory of Operation (Induction)
- *Connections & Testing
- *Maintenance

AC Drives

- *Construction & Theory of Operation (PWM)
- *Braking Types (Dynamic, DC Injection,

Line Regenerative)

*Programming

*User Interface (I/O)

- *Drive, Motor, and Load Data
- *Faults & Troubleshooting
- *Visual & Test Equipment Diagnosis
- *Typical Application Problems
- *Maintenance

Space is limited. Please call or email Tatyana and reserve your seat(s) today.

(770) 448-4644 Tatyana@emainc.net

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Please fill out the form below and fax back to (770) 448-4823	
Company Name:	\$695.00 / Person
Billing Address:	Cost covers tuition, School Materials and lunch both days.
Phone: Fax:	Students are encouraged to bring their own Multimeters to the seminar.
Email Address:	Classes start promptly @ 8:00AM and finish @ 4:30PM
Name of Attendee(s):	In order to assure registration, all class fees must be received prior to the scheduled seminar date.
An EMA representative will contact you for payment.	I would like to be informed of future classes: $()$

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