



MEDIUM & LOW VOLTAGE DRIVES

No One Anywhere is Better at Drives Than We Are!

AC Drive Troubleshooting Seminar

November 13th & November 14th, 2018

Norcross, GA

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)

This Course is also approved by the:
GA State Board of Examiners
for Certification of
Water & Wastewater Treatment Plant
Operators & Laboratory Analysts



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 basic electrical laws and component operation you need to know.

WWW.EMAINC.NET

Please call (770) 448-4644 to unsubscribe from our mailing list



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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 Nicole and reserve your seat(s) today.

(770) 448-4644

ngrisham@emainc.net



Please fill out the form below and fax back to (770) 448-4823

Company Name: _____

Billing Address: _____

Phone: _____ Fax: _____

Email Address: _____

Name of Attendee(s): _____

An EMA representative will contact you for payment.

\$695.00 / Person

Cost covers tuition, School Materials and lunch both days.

Students are encouraged to bring their own
Multimeters to the seminar.

Classes start promptly @ 8:00AM
and finish @ 4:30PM

*In order to assure registration, all class fees must be
received prior to the scheduled seminar date.*

I would like to be informed of future classes:
_____ (✓)

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