

Two-Day "Hands On" AC Drive Troubleshooting Seminar

MEDIUM & LOW VOLTAGE DRIVES

No One Anywhere is Better at Drives Than We Are!

April 21st & 22nd, 2020 ~ Cortland, NY

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. <u>Here is a VERY cost effective solution.</u>

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

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.

~ DAY ONE ~	~DAY TWO ~
Safety	AC Motors
Drive Application Basics	*Construction & Theory of Operation (Induction)
*Horsepower/Torque	*Connections & Testing
*Load Types	*Maintenance
*Typical Applications, Pitfalls and Troubleshooting	AC Drives
*Harmonics and Noise	*Construction & Theory of Operation (PWM)
Test Equipment and Measuring Methods	*Braking Types (Dynamic, DC Injection,
*Component Testing	Line Regenerative)
*Voltage/Current Measuring Methods, Problems and	*Programming
Considerations of Non-sinusoidal Waveforms	*User Interface (I/O)
*Oscilloscope Basics and Safety Considerations	*Drive, Motor, and Load Data
Discrete Components and Typical Circuits Overview	*Faults & Troubleshooting
*Passive Components (capacitors, diodes)	*Visual & Test Equipment Diagnosis
*Active Components (transistors, IGBT's etc.) and	*Typical Application Problems
Associated Circuits	*Maintenance
*Inductors, Transformers	Final Review and Open Question Session.
*Electrical Laws	
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What people are saying about their seminar experience...

"Outstanding class / seminar!!! I will highly recommend this class to all." - Bristol-Myers Squibb Company

"Theory was ABSOLUTELY great. Opened my eyes on many subjects. Good illustration guide. Great hints and good info." - Borg Warner Automotive

"Great class covered a lot of eye opening stuff on safety. Would recommend this class for maintenance line techs to help save line down time" - Reckitt Benckiser

"Very good course. A lot of material covered very well, and in a very understandable presentation." - Corning Inc.

"I have attended many seminars, by many manufacturers, never have I seen a more informative and effective class. I learned more in two days than I have learned in week long classes." - Charles Cole Memorial Hospital

"Excellent overview of drive theory and troubleshooting procedures. Presented in a manner that was easily understood. Should be able to pass these troubleshooting methods to the shift maintenance personnel in a condensed manner." - Cooper Vision Inc.

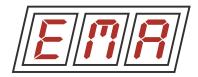
"I have a very non-electrical background, yet taught in such a way that even I could feel myself beginning to grasp the concepts presented. I am inspired to continue learning." - RJ Williams, Inc.

"Very informative class. Practical knowledge taught. Well informed instructor" - Los Angeles DWP

"This is the only drive training that I had that actually made logical sense to me. Excellent review of electronic components and theory! Well worth 2 days of training! Excellent!" – Novelis Corporation

"Excellent information, helped to clarify many theories" - Emerson Power Transmission

"Class was great, I know have an open knowledge of drives and how they work." - West Irondequiot School District



Two-Day "Hands On" AC Drive Troubleshooting Seminar ~ Registration Form ~

MEDIUM & LOW VOLTAGE DRIVES

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Class Location:

Today's Date:

Your Name:

Company Name:

Attendee Name(s):

Address:

Phone #:

Fax#:

Email Address to Send Confirmations:

Payment

Security Code:

Class Date:

Purchase Order#:

Or

Credit Card #:

Expiration Date:

Name on Card:

Credit Card Billing Address:

\$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.

Thank you for registering for our seminar! Official confirmation letters will be sent out prior to the class date. If you have any questions or concerns, please don't hesitate to contact Kristin @ 607-756-0424 or email

kburdick@emainc.net.

I would like to be informed of future classes: $(\sqrt{})$

"Cancellation Policy:

EMA reserves the right to cancel a scheduled class at any time due to low enrollment. In this situation the student will be asked to reschedule or the tuition cost will be refunded. EMA is not liable for any charges incurred by the customer (i.e.-airline, hotel, and rental car) due to cancellation. Payment is required at the time of registration. Cancellation fee for customers: if canceling within 1 week of the scheduled class is 100% of the total.

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