

# Education in Machinery Health™ Management



## REGIONAL ADVANCED VIBRATION ANALYSIS COURSE



### ADVANCED VIBRATION ANALYSIS (COURSE #2033) – 2.8 CEUS

Compliant with Category III Vibration Analyst per ISO standard 18436-2: Vibration condition monitoring and diagnostics.

This course expands on the subjects covered in Intermediate Vibration (Category II), with an emphasis on fault analysis, corrective actions, and advanced analysis techniques. Dual-channel analyzer features are introduced, including the use of AMS Suite: Machinery Health™ Manager software to set up the advanced analyzer features and downloadable programs for data collection. Intermediate vibration analysis course and a cumulative three years of field experience are recommended.

#### TOPICS INCLUDE

- Specifying appropriate vibration instrumentation hardware and software for both portable and permanently installed systems
- Performing spectrum and time waveform analysis under both steady-state and unsteady operating conditions
- Establishing specifications for vibration levels and acceptance criteria for new machinery
- Measuring and analyzing basic operational deflection shapes (ODS)
- Understanding and applying the use of other condition monitoring technologies
- Measuring and analyzing PeakVue® measurements
- Preparing machinery condition reports

- Understanding and applying Slow Speed Technology (SST®), zoom analysis, transient techniques, dual-channel analyzer features, triggered data capture, and resonance detection.

Optional Category III exam available at the end of this course. Passing grade for this 4-hour written exam is 75% or greater. You must complete this Category III course and have previously passed the Category II exam to be eligible for this test.

#### DATES AND LOCATIONS

February 21st to 24th, 2011. Exam will be held on February 25th.

#### Giants Ridge Conference Center

6325 Giants Ridge Road  
Biwabik, MN 55708

Course: 8:00 AM – 4:00 PM daily

Exam: 8:00 AM – Noon Friday

- \$1,950 per person for course, \$350 per person for exam. Lunch will be provided.

#### Registration:

To register, complete the registration form indicating your payment and fax to 865-218-1764. For more information, contact [mong-ching.lin@emerson.com](mailto:mong-ching.lin@emerson.com), 865-675-2400 extension 2414

# REGISTRATION FORM

Complete a separate registration form for each class you attend. Deadline for registration is one week prior to start of class.

Please photocopy this form for future use.

Name to appear on class certificate

\_\_\_\_\_

Name to appear on name tag

\_\_\_\_\_

Country of Citizenship

\_\_\_\_\_

Company

\_\_\_\_\_

Physical or Shipping Address

\_\_\_\_\_

City/State/Zip

\_\_\_\_\_

Billing Address

\_\_\_\_\_

City/State/Zip

\_\_\_\_\_

Phone

\_\_\_\_\_

Fax

\_\_\_\_\_

Email

\_\_\_\_\_

Course or Certification

\_\_\_\_\_

Dates of Course or Certification

\_\_\_\_\_

Course location  Knoxville  Austin

San Diego

\_\_\_\_\_

Today's Date   -   -

FORM OF PAYMENT (MUST BE COMPLETED)

Credit Card # \_\_\_\_\_

Expiration Date \_\_\_\_\_

Please print cardholder's name \_\_\_\_\_

Visa  Mastercard  AMEX

Authorized signature \_\_\_\_\_

Phone \_\_\_\_\_

Fax receipt to \_\_\_\_\_

Check # \_\_\_\_\_

Purchase Order # \_\_\_\_\_

Total amount of purchase order \_\_\_\_\_

Please make purchase order out to Emerson (to the address below) and **please send a copy with your registration**

Does this P.O. cover more than one registration?

YES  NO

Training Certificate: ACET #:

A copy of your certificate for training must accompany your registration. Please bring the certificate with you to class.

**Note: A confirmation will be sent to you to confirm your place in the class within 72 hours of receiving your registration. If you do not receive a confirmation, your space in class is not guaranteed, so please call.**

I have the prerequisites for this course. I know the date, starting time and directions to the training facility. I understand the cancellation policies.

Date   -   -

Signature \_\_\_\_\_

## RETURN TO

Emerson • Attn: Education Services

835 Innovation Drive

Knoxville, Tennessee 37932

Phone: 800-675-4726

Fax: 865-218-1764