

Educational Services

Maximize Your Investment with Well-Trained Personnel



PeakVue™ Mystery and Autocorrelation Course 2035 (CEUs: 2.1)

This 3-day course provides insight into advanced functionality of Emerson's unique PeakVue™ technology and Autocorrelation. Machine vibrations generate both macro and microscopic vibrations, and microscopic vibrations generate stress waves that have frequency ranges determined by the mass of the impacting object. The properties of these stress waves will be explained. The Autocorrelation section of the course will teach the power of the autocorrelation coefficient function for the analysis of vibration induced time wave form data. The autocorrelation function data generally are computed from the same time wave form data used to compute the spectrum. The strengths of the autocorrelation data are complimentary to the strengths of the spectral data. This course makes use of both case studies from real-life examples of common faults and live demonstrations illustrating specific mounting procedures to reliably detect certain faults. The difference between PeakVue techniques and demodulation will also be demonstrated.

Prerequisites

Students should be familiar with vibration data collection and analysis techniques and the use of AMS Machinery Manager Software.

Topics Include

- Proper PeakVue™ Set-Ups for all Speeds (as Low as 1 rpm)
- Sensor Selection and Sensor Mounting
- Setting Alarm Levels
- Choosing Trend Parameters
- Analyzing PeakVue Spectra and Waveforms
- Uses of the Circular Waveform Plot
- Introduce the Autocorrelation Coefficient
- Demonstrate the Computation of the Autocorrelation Coefficient Data from the Time Wave form Data
- Highlight the Strengths of the Autocorrelation Coefficient Function Data/Spectra Data
- Demonstrate the use of the Autocorrelation Coefficient Data as a Diagnostic Tool to Support the Spectra Data for Vibration Analysis Through Several Case Studies
- Identify Unique Patterns of the Autocorrelation Function Data for Certain Classes of Bearing Faults, Gearing Faults, etc.

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Emerson Educational Services is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU.



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Course Information

Date:	May 21-23, 2019 Note: Originally scheduled for 5/7-5/9 - Has been RESCHEDULED to 5/21-5/23.
Location:	R.E. Mason, 5101 Craig Rath Blvd. Midlothian, VA 23112
Price:	\$2,500 per person
Sponsored By:	Emerson Educational Services and R.E. Mason
Registration:	Payment is required at the time of enrollment. Please make PO, Check or Credit Card to Robert E. Mason & Associates, Inc.
Contact for Questions:	Kathleen Myers Education Coordinator Email: Kathleen.Myers@remasonco.com Phone: (704) 375 4464
Website:	https://remason.com/training

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