Hands-On ODS and Modal Analysis for Vibration Analysts & Engineers

This 3-day training seminar will be held at the new Vibrant Technology offices in Centennial, Colorado just outside of Denver.

This course is designed to be an alternative to a typical computer software course, in that a more fundamental approach is taken to utilizing ODS and Modal analysis for machine vibration analysis and troubleshooting.

This course concentrates on **Fundamental Relationships, Simple Guidelines** and emphasizes concepts with **Numerous Case Histories and Visual Animations**. The software-training portion of the course is built around a **Project Workbook (The ME’scope Workbook)**.

Each project is presented as a step-by-step series of instructions and images from the ME’scope software. The various exercises will acquaint a new or novice user with the many functions of the software. Some of the topics are:

- ME’scope windows navigation
- Methods of Structure Model creation
- Advanced Methods of Structure Model creation
- Using & Combining Substructures
- Importing & Manipulating Vibration Data
- Assigning Measurements & Shape Animation
- Experimental Modal Analysis
- ODS FRF Data Analysis
- Advanced Uses
  - Structural Dynamic Modifications (SDM)
  - Experimental Finite Element Analysis (FEA)

The **ME’scope Workbook** offers project formats that are generic or vendor specific from numerous data acquisition systems. Many of our past students have been users of portable systems like CSI, SKF, Entek, Diagnostic Instruments, and DLI Engineering, as well as computer-based systems like Data Physics, IOtech, Dactron, LMS, Scientific Atlanta, etc.

**No other course available to the vibration analyst offers more complete training in Operating Deflection Shape & Experimental Modal Analysis which includes hands-on software training using ME’scope.**

We guarantee that completion of this course will increase your knowledge of the fundamentals of Operating Deflection Shape & Experimental Modal Analysis and testing. Completing this course will likely increase your ability to troubleshoot machinery health problems.

Remember, Visualizing the Problem is the Key. If you can’t **SEE** it, you can’t **FIX** it!
The course tuition includes the ME’scope Handbook and a 1-month license for a fully functioning copy of ME’scope. Bring your Laptop computer. Snacks, drinks and lunch are included each day.

Seating is limited to 8 students. To reserve your seat, contact Vibrant Technology 831 430-9045 (email: sales@vibetech.com) or Full Spectrum Diagnostics 612-875-9959 (email: ModalGuy@aol.com).

**Course Dates: July 13-17, 2016**  
**Course Tuition:** $1,695  
**Instructors:** Dan Ambre, president of Full Spectrum Diagnostics, and Vibrant staff

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**Testimonials From Our Past Students:**

……I wanted to thank you for the modal analysis course you presented last month in Chicago. I found the class to be extremely helpful and well laid out. I especially appreciated the fact that you focused more on real applications rather than the (mathematical) theory behind modal analysis. Thank you again……

……I completed your course last week in Chicago. I thought you did an outstanding job! I’m glad we didn’t get the “theory” version and its something we will be able to apply to real world vibration problems. Even though I’m just beginning in vibration I feel my company will greatly benefit by having had your course……