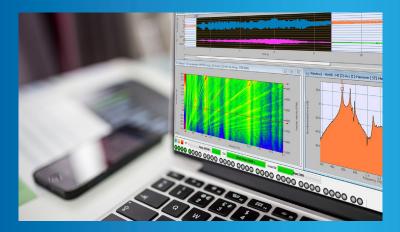


NVGate Users Training

Enhance your skills! October 4-5, 2022

Walker, MI (just outside of Grand Rapids, MI)





What is covered in this training?

- Basics of Signal ProcessingBasics of Instrument and NVGate Set-up
- NVGate Basic Recording and Analysis

- Machinery Diagnostics
 Advanced Rotating Analysis
 Torsion analysis with NVGate
 Acoustics with NVGate

Who should attend?

Anyone new to NVGate or those looking to refresh

Cost \$695 per seat

Register today at https://landing.oros.com/training





TWO DAY NVGATE OPERATIONAL TRAINING PROGRAM

DAY ONE —

Basics of Signal Processing — 1 Hour • Mechanical behavior of systems

- Single or multiple degree-of-freedom systems
- The measurement chain: transducer's principles and considerations (mounting, etc.)
- Introduction to noise and vibration measurement
- Signal characterization
- From continuous and physical domain to a digital data, sampling and signal processingFourier Transformation: main parameters of FFT analysis
- Other analysis modes

Basics of Instrument Set-up and NVGate software -2 Hours

- Analyzer instrument main features
- Teamwork functionality
- Modes for online (real-time) analysis and post processing analysis
- How to prepare a measurement, settings and parameters
- User interface best practices for optimum performance during measure-
- Organize, save and share data
- Best practices for post-processing of recorded data

NVGate Basic Recording and Analysis (typical setup and configurations) -2.5

- Record and measure a sensor signal
- Signal editing
- Monitor a "live" signal
- Narrowband FFT

- FFT Cross FunctionsFFT DiagnosticsConstant Band Tracking

- Reporting in NVGate 1.5 Hours
 Reporting using Word and Excel
 - Data copy, drag-n-drop, automatic export, different tools to enable
 - Reporting graph, data, settings, how to combine all these results in one
 - One-click print reporting
 - Report customization, how to manage Word and Excel model including NVGate tag

DAY TWO -

- Machinery Diagnostics with NVGate − 1.5 Hour

 Time Domain Analysis, typical results and how to setup and parameter

 - Use makers to identify troubles according to mechanical and kinematic

- How to get a good and reliable tachometer measurement
 Synchronous Order Analysis, the principle and features
 Constant Band Tracking method for diagnostics
 Waterfall and order extraction
 Order tracking

- Order tracking, phase tracking

- Synchronous Order Analysis, the principle and featuresHow to get a good and reliable torsion measurement: transducer setup
- IVC (Integrated Frequency to Voltage Converter) for Torsional Analysis Signal filtering from torsion velocity to angle position Static "twist" and dynamic analysis

- Save and compare dataReport generationExported and shared data

