

GE Oil & Gas

Bently Nevada*

Technical Training Solutions



I N T R O D U C T I O N

With more than 40 years of technical training experience we have pioneered the art of long-term skill development. All Measurement & Control product training is conducted by our core group of instructors and experienced field engineers to provide a world-class training experience. Measurement and Control offers comprehensive, self-paced, hands-on instructor-led courses designed to help you protect and manage all your machinery. Our techniques are proven and we have strong regional expertise in over 50 countries and multiple languages with courses held at various GE training locations around the world, your local facility or on-line.

We provide a training curriculum and consulting services for applications involving all facets of power generation, mechanical drives, and petrochemical industries. Our services include needs and gap analysis, objective development, and skills based training solutions. Measurement & Control technical training programs provide customers the knowledge and skills required to optimize the performance of your technology and equipment and maximize your return-on-investment.

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Condition Monitoring

COURSE

DAYS

Introduction to Vibration for Continuous Monitoring

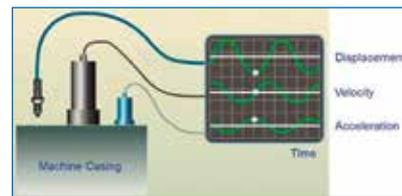
2

This course is a must for anyone new in the field of machinery condition monitoring and machinery protection. It provides a basic understanding of the measurements, parameters, monitoring concepts and transducers used, along with their operation and application. Upon completion of the course, the student will be able to:

- Explain key components in the definition of vibration.
- Describe vibration motion in a measurement plane as changes in displacement, velocity, and acceleration.
- Define the parameters used to measure vibration motion and state the units used to express each parameter (amplitude, frequency, and phase).
- Describe the principles of vibration transducer operation, the benefits and disadvantages of each type, and typical scale factor of output signal.
- Apply selection criteria to choose a useable vibration transducer for a specific machine vibration application.
- Read values of amplitude, frequency, and phase and recognize sources of vibration indicated by waveform and spectrum plots.

Topics include:

- Basic Vibration Concepts
- Proximity Transducer Operation
- Seismic Transducer Operation
- Radial Vibration Measurements
- Thrust Position Measurements
- Instrument Grounding



Prerequisites:

- No special prerequisites are required, although a technical background is advised.

Wind Turbine Condition Monitoring

2

This class is designed specifically for wind turbine diagnostic specialists, and therefore is focused on describing typical drivetrain failure modes and their vibration symptoms. However, the materials also include some overview level information on the 60M100 monitor instrument, Farm Server computer network communications and Farm Client software features. Upon completion of the course, the student will be able to:

- Describe how the listed topics apply to monitoring the mechanical condition of wind turbine drivetrain components.
- List and describe details of Bently Nevada drivetrain monitoring transducers, including sensor capabilities, purpose, locations, and installation guidelines.
- Describe the basic capabilities of the Farm Client application.
- Use the Farm Client application to perform basic detection and identification tasks for typical WTG condition monitoring scenarios.
- Describe the listed topics as they apply to detecting and diagnosing wind turbine drivetrain faults.

Topics include:

- Condition monitoring basics
- The instrumentation and installation of the 60M100
- An overview of the monitoring system
- An overview of the Farm Client software
- Monitoring tools in the Farm Client software
- Vibration signal processing
- Applied diagnostics
- Case histories

Prerequisites:

- Fundamentals of Vibration (or ISO Cat I certification) is recommended.



Systems and Instrumentation

COURSE

DAYS

3500 System Operation and Maintenance

3

This instructor-led, hands-on course is for anyone involved with operating, troubleshooting, and maintaining a 3500 monitoring system. Workshops include practice with “live” monitors and racks, and proximity transducers. Workgroups are kept small to ensure that students have the opportunity to fully explore the capabilities of the system. Upon completion of the course, the student will be able to:

- Correctly assemble the components of a proximity transducer system and verify that the system meets specifications by use of a micro spindle and multi-meter.
- Use the 3500 configuration software to make a connection to the 3500 monitoring system, upload the racks configuration, download a configuration change to the rack, and save the configuration file to the computer hard drive.
- Configure channels of a 3500 monitoring system for radial vibration, thrust, and Keyphasor*.
- Return the 3500 monitoring system to proper operation and verify that all signals are being read correctly and that all relay logic is operating correctly.

Topics include:

- Overview of the 3500 Monitoring System
- 3300 Proximity Transducer System Operation
- TDI/RIM Hardware Connections and Communications
- Radial Vibration: Understanding radial vibration, Monitor configuration, and Set point adjustment
- Thrust Position: Understanding thrust position, Monitor configuration, and Set point adjustment
- 3500 System Utilities
- 3500/92 Communications Gateway
- Troubleshooting the 3500 System



Prerequisites:

- Introduction to Vibration for Continuous Monitoring is recommended



Systems and Instrumentation

COURSE

DAYS

3500 Monitoring System for Turbine Supervisory Instrumentation (TSI)

2

This course is a continuation to the standard 3-day 3500 Operation & Maintenance training and focuses on setting up or maintaining a 3500 Monitoring System and the transducers used on large steam turbine generators.

During the course students will be able to configure and verify the following 3500 channel types:

- Rotor Speed, Zero Speed, Rotor Acceleration,
- Eccentricity
- Case Expansion
- Differential Expansion
- Thrust

The course includes workshop exercises that let students practice with 'live' monitors and racks. Class sizes are kept small to ensure that students have the opportunity to fully explore the capabilities of the system.

Upon completion of the course student will be able to:

- Explain the difference between matched and unmatched proximity transducers, installation pitfalls, and verifying systems using the TK-3 for 11mm, 25mm, and 50mm, and LVDT transducers.
- Configure and verify monitor types including the thrust, differential and case expansion, rotor speed (zero speed, acceleration), and eccentricity



Prerequisites:

Because the TSI training is a continuation of the standard 3500 training, the 3500 operation and maintenance course is a prerequisite for the TSI training. Notice that students who are not yet familiar with the 3500 monitoring system should consider attending a 5-day combined 3500 training that includes the standard 3500 course (3 days) followed by the TSI course (2 days).

3500 Monitoring System for Hydro Applications

2

This course is a continuation to the standard 3-day 3500 operation and maintenance training and focuses on setting up or maintaining a 3500 monitoring system and the transducers used on hydro power generator applications.

Upon completion of the course, the student will be able to configure and verify the following 3500/46M channel types:

- Hydro radial vibration
- Hydro thrust position
- Hydro air gap
- Hydro multimode

The course includes workshop exercises that let students practice with 'live' monitors and racks. Class sizes are kept small to ensure that students have the opportunity to fully explore the capabilities of the system.

Prerequisites:

Because the 3500 hydro training is a continuation of the standard 3500 training, the 3500 operation and maintenance course is a prerequisite for the hydro training. Notice that students who are not yet familiar with the 3500 monitoring system should consider attending a 5 day combined 3500 training that includes the standard 3500 course (3 days) followed by the hydro course (2 days).

Systems and Instrumentation

COURSE

DAYS

2300 Monitoring System Online Training

This online training is an overview of the Bently Nevada 2300 Series Vibration Monitor and the Bently Nevada Monitor Configuration software used to configure the monitor. Refer to page 12 for information about how to order this online training.

System 1* Fundamentals

3

This instructor-led course teaches students how to use the System 1 Display application in a variety of practical, daily-use situations. For each of the many workshops, participants will break into small groups and learn to confidently and efficiently use this asset management platform. This course is recommended for anyone who uses System 1 Display, such as operators, instrument technicians, and rotating equipment engineers. Upon completion of the course, the student will be able to:

- Use various System 1 tools and plots to detect subtle changes in asset condition
- Retrieve and display data in bar graphs and many other plot formats
- View alarms and events in the Event Manager
- Create and use plot sessions and plot groups
- Capture reference data and use in run out compensation and plot overlays
- Enter observations and notes with the Journal Editor
- Create reports on monitored plant assets
- Create historical and configuration databases; archive data

Topics include:

- System 1 Overview
- Viewing Information with System 1 Display
- Event Manager and Asset Active Alarm
- Working with Plot Session and Plot Groups
- Plotting Dynamic Data and using Collection Groups
- Collecting Data in Transient Mode

Prerequisites:

- Introduction to Vibration for Continuous Monitoring is recommended.



SCOUT – Implementation Success Training

2

This two-day introductory SCOUT training is intended to increase confidence and success in building machines for vibration data collection and analysis utilizing the SCOUT portable data collector and the accompanying Ascent™ software. Students learn how to install the software, build a database and routes, practice communications, learn basic skills for data collection, communicate actual data back into the software, and manipulate the data within the software. Upon completion of the course, the student will be able to:

- Load the Ascent™ software on training lab computers
- Build a database and routes
- Practice communications with the analyzers
- Learn basic skills for data collection
- Communicate actual data back into the Ascent™ software
- Data manipulation: charting, views, and reporting

Topics include:

- History and Resources
- Licensing and Installation of Ascent™ Software
- Database – Working with Database Structure
- Communicating with Instrumentation
- Hardware – Integration into Ascent™ Software
- Accessing Data in Ascent™ – Graphical and Textual Output

Prerequisites:

- Fundamentals of Vibration (or ISO Cat I certification)
- Introduction to Vibration for Continuous Monitoring is recommended



Systems and Instrumentation

COURSE

DAYS

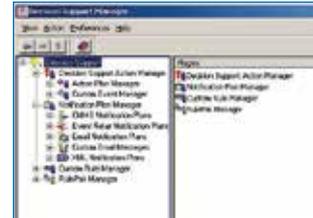
Decision Support SM

1-3

This course shows students how to use the Decision Support tools within System 1 software to enhance their ability to manage their plant assets. Examples and case scenario discussions help students apply Decision Support to their needs. Workshops give hands-on practice in creating rule logic and sending notifications with recommended action advisories.

Upon completion of the course, students will be able to:

- Create rule logic that calculates new data values or custom events
- Create user-defined recommended action advisories for delivery when events occur
- Use notification tools to send automatic notifications and recommended action advisories via cell phone, pager, email, XML, Smart Notifier, or other delivery means
- Use Decision Support Studio to create advanced rule logic, test them, and bundle them into custom RulePaks for fleet distribution (3-day class only)



Course length:

- 1 Day, for users of Decision Support only
- 3 Days, for users of DS Studio or DS Studio Developers Edition

3500 ENCORE Operation and Maintenance

3

3500 ENCORE Operation and Maintenance is a three-day customer training for instrumentation technicians and machine condition monitoring engineers. Students learn how to configure, operate, maintain, and troubleshoot ENCORE v1.1 systems by performing practical exercises using ENCORE systems at lab stations in the classroom. Upon completion of the course, students will be able to:

- Explain the role of the 3500 Encore Monitoring System in machinery monitoring and protection.
- Explain the difference between matched and unmatched proximity transducers, installation pitfalls, and verifying systems using the TK-3
- Configure and verify channel types including the radial vibration and thrust position
- Apply software switches, trip multiply, and rack alarm inhibit
- Apply troubleshooting techniques for transducers and replacement of 3500 ENCORE monitors

Topics include:

- Product Overview
- Proximity Transducer System Operation
- 3500/23E Transient Data Interface
- Establishing Communication and Configuring Keyphasor Channels
- Radial Vibration
- Thrust Position
- 3500 ENCORE System Relays
- Modbus Communication
- Maintenance
- Troubleshooting



Prerequisites:

- Introduction to Vibration for Continuous Monitoring is recommended.

Machinery Diagnostics

COURSE

DAYS

Machinery Diagnostics

5

This course is fundamental in the understanding of machinery diagnostics. This is the “must have” course for those who interpret or plan on interpreting machine vibration and position data to determine machine condition. The hands-on approach gives you the experience you need to feel confident when taking action at your plant. Upon completion of the course, the student will be able to:

- Describe and predict how a rotor will respond to various forces
- Interpret data from steady state and transient plots (including orbit, spectrum, polar, and Bode plots)
- Recognize problems such as imbalance, misalignment, rubs, shaft cracks, and fluid-induced instabilities

Topics include:

- Introduction to Machinery Diagnostics
- Phase Measurements
- Steady State Data Formats
- Transient Response Data Formats
- Fundamentals of how a Rotor Responds
- Single Plane Balancing
- Multi-Plane Balancing
- Preload
- Radial Rubs
- Fluid-Induced Instabilities
- Shaft Crack Detection



Prerequisites:

- Data Acquisition CBT or Introduction to Vibration for Continuous Monitoring course



Machinery Diagnostics

COURSE

DAYS

Applied Diagnostics Workshop

5

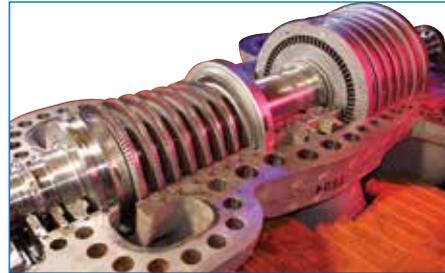
Engineers and technicians involved in the analysis and interpretation of vibration data will appreciate this course. This is an advanced course that builds upon what was learned in the Machinery Diagnostics course. Participants will build and sharpen their diagnostic skills by diagnosing various machine malfunctions for a variety of machine types using multiple case histories. The data for these case histories was collected by GE machinery diagnostic engineers while solving customers' machinery problems.

The Applied Diagnostics Workshop is designed to be very flexible. Students can select from a large number of cases, decide which machines they would like to focus on, and then diagnose problems specific to those machines. Of the selected machines, the characteristics of design and construction that influence behavior under both normal and malfunction conditions are reviewed. Upon completion of the course, the student will be able to:

- Use the diagnostics strategies to effectively and efficiently analyze available data
- Select and produce specific plot formats to prove or disprove certain malfunctions
- List the possible root causes for a machine's observed behavior

Machine types cases and topics available:

- Steam Turbines
- Generators
- Exciters
- Motors
- Boiler Feed Pumps
- Horizontal Pumps
- Vertical Pumps
- Fans
- Compressors
- Hydro Turbines
- Gas Turbines
- Gear Boxes



Prerequisites:

- Machinery Diagnostics course is recommended
- Although we will not refuse persons who do not meet the pre-requisites, the Applied Diagnostics Workshop will start where the Machinery Diagnostics course left off.

ADRE* 408 DSPi/Sxp

3

This course teaches the skills necessary to use the ADRE diagnostic system to ensure the highest quality of acquired data and presentation in graphical data formats. The course begins with the basics in system configuration and data collection and continues through to advanced database manipulation tools. For each of the many workshops, participants will break into small groups and learn to confidently and efficiently use this highly versatile data acquisition system. Upon completion of the course, the student will be able to:

- Configure the ADRE system to collect machinery data
- Acquire data effectively for real-time analysis
- Display vibration and other data types using various plot types for machine condition analysis
- Edit, document, and store databases for future use

Topics include:

- ADRE 408 System Overview
- Configuring a Database and using templates
- Collecting Data at Steady State and Transient Conditions
- Displaying Data in the Various Plotting Formats
- Managing Databases



Prerequisites:

- Introduction to Vibration for Continuous Monitoring
- Machinery Diagnostics course is recommended

Machinery Diagnostics

COURSE

DAYS

Advanced Machinery Dynamics

5

Designed for engineers who are responsible for managing rotating machinery assets, this course includes presentations of advanced rotor dynamic turbomachinery concepts. Throughout the training, students will use numerous case studies to apply the concepts they learn to diagnose and fix problems with real machines. At the conclusion of the course, students shall be capable of conducting root cause analysis through the understanding of the fundamental forces and stiffnesses that are evident in machine malfunction behavior. Upon completion of the course, the student will be able to:

- Identify the design parameters that determine the rotor dynamic behavior
 - Develop a rotor model and use the fundamental relationships
 - Conduct modal perturbation testing
 - Describe bearing design parameters and their influences on rotor dynamic behavior
 - Perform multi-plane balancing using polar plots, influence coefficients, and static-couple techniques
 - Diagnose and control instabilities
 - Analyze shaft cracks, emphasizing detection and prevention
 - Describe the different types of gears, and be able to state their advantages, drawbacks, and failure types
 - Explain the TIM techniques to measure torsional vibration
 - Perform impact testing and ODS
- Topics include:**
- Review of fundamental rotor response
 - Rotor modeling
 - Bearing design
 - Balancing
 - Surge/stall
 - Fluid instabilities
 - Rubbing
 - Shaft crack
 - Torsional measurement
 - Introduction to impact testing and ODS



Note: For each theme described above, real case histories will be explored to show the practical use of these techniques.

Prerequisites:

- Machinery Diagnostics course (or ISO Cat III certification) is recommended
- Although we will not refuse persons who do not meet the pre-requisites, the Advanced Machinery Dynamics course will start where the Machinery Diagnostics course left off

Reciprocating Compressor Condition Monitoring and Diagnostics

3

In this instructor-led course, students will learn about instrumentation used for protection and condition monitoring of a reciprocating compressor, interpret data plots, and identify reciprocating compressor malfunctions. The course includes hands-on workshops with actual case histories. Upon completion of the course, the student will be able to:

- Relate reciprocating compressor components to various failure modes
- State how crank angle measurements affect the reciprocating compressor data measurements and plots
- Recognize select plots used to assess the health of reciprocating compressors
- Interpret PV Plots: use cylinder pressure versus volume plots, as well as performance monitoring to determine throw condition
- Calculate rod load conditions (reversal)
- Discover the full application and benefits of rod position instead of rod drop measurements
- Conduct compressor vibration analysis

Topics include:

- Introduction to Reciprocating Compressor Condition Monitoring
- Crankshaft Timing Measurements
- Cylinder Pressure Plots and Application
- Cylinder Performance Design Factors and Plot Evaluation
- Rod Load Concepts
- Rod Drop Fundamentals and Instrument Settings
- Rod Position Monitoring and Plots
- Compressor Vibration Monitoring and Measurements
- Configuring and Viewing data with System 1 software



Prerequisites: None

Thermodynamic Performance

Unlocking your plant's potential. GE offers several different software products to help you maximize the efficiency of your plant. Whether you are looking for increased profitability, better environmental compliance or to maximize raw material usage, we have a training course designed to show you how to achieve any or all of these benefits.

COURSE

DAYS

Thermodynamic Machine Performance

1-3*

This instructor-led course begins with a review of basic thermodynamic concepts. Students then learn to use Bently Nevada PERFORMANCE and System 1[†] Software to evaluate the condition of gas turbines, centrifugal compressors and/or centrifugal pumps as their performance degrades due to various causes. This course can be customized to focus on one or more machine types.

Course objectives:

Upon completion of the course, students will be able to:

- Derive maximum benefit from the Bently Nevada PERFORMANCE software in your plant. Interpret and use thermodynamic calculation results and plots
- Gain the skills necessary to evaluate the condition of gas turbines, centrifugal compressors and/or centrifugal pumps based on their thermodynamic performance

Topics include:

Introduction:

- Machine Performance Monitoring
- Introduction to Thermodynamics
- Displaying Performance Data

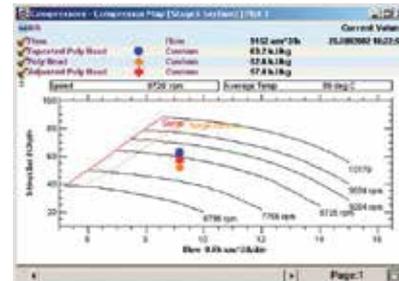
Machine-specific topics for each machine type selected include:

- Thermodynamic Modeling
- Performance Calculation
- Information Display
- Performance Degradation
- Case Histories

Prerequisites:

- General knowledge of gas turbines, centrifugal compressor and/or centrifugal pump operation, including typical condition monitoring measurements (temperature, pressure, flow rate, etc.)
- Some familiarity with basic thermodynamic concepts is helpful

[†]depending on machine types covered



Computer Based Training

COURSE

DAYS

Data Acquisition CBT

5

The Data Acquisition application is a self-paced tool designed to introduce the use and proper application of vibration transducers. This provides the foundation to the science and methodology behind our Bently Nevada rotating machinery diagnostics. This tool uses a multi-media environment to demonstrate concepts and challenges the student through interactive animations and quizzes.

Topics include:

- Transducer Operation
- Transducer Selection
- Measurement Conventions
- Phase Measurements
- Noise and Error Sources
- Noise Reduction Techniques
- Digital Errors



How to order the training

The Data Acquisition computer based training is delivered on a CD, Bently Nevada part number 168836-01. To obtain this training, order this part number from your local Bently Nevada customer service representative.

2300 Monitoring System Online Training

This online training is an overview of the Bently Nevada 2300 Series vibration monitor and the Bently Nevada monitor configuration software used to configure the monitor.

Upon completion of this course the student will be able to:

- Describe the 2300 monitor features
- Identify how to connect power and where to connect sensors
- Configure the monitor using the Bently Nevada monitor configuration software

How to order the training

Register for 2300 monitor computer based training from the Bently Nevada Training Portal. Navigate to the training by clicking on the item called "ONLINE LEARNING" in the menu on the left side of the page.



Scan QR code with your smartphone to navigate to the Bently Nevada Training Portal.



Legacy Products and Systems

COURSE

DAYS

3300 Operation and Maintenance

3

This hands-on course provides practice that will enable you to fully benefit from your 3300 Monitoring System. Topics include system maintenance and troubleshooting, self-test capabilities, jumper installation, monitor calibration, and common options and features. Workshops include practice with “live” monitors and racks. Class sizes are kept small to ensure that students have the opportunity to fully explore the capabilities of the system. Upon completion of the course, students will be able to:

- Identify the different hardware components of the monitoring system
- Successfully identify a matched and mismatched system, installation pitfalls, proper installation procedures, and running a probe curve verification using the TK-3
- Explain all of the standard programmable options and their uses in detail
- Successfully set up the programmable jumper options of the 3300/16 monitor, calculate input signals, and verify the monitor using test equipment (function generators, power supplies, DMM)
- Successfully set up the programmable options for the 3300/20 monitor, calculate the input signals, and verify the monitor using test equipment (power supply, DMM)
- Successfully identify an error code in the system and perform the necessary steps to clear the error
- Identify an indication of potential problems within the 3300 monitoring and/or Proximity* Transducer system and how to go about the troubleshooting process

Trendmaster 2000

3

This hands-on course covers the configuration, installation, and use of the hardware and software components in the Trendmaster* 2000 system. Students will set up and configure a Trendmaster 2000 system using the actual hardware and software, and then use the software to display machine data and create reports and other documentation. Students will verify the operation of monitors, make changes to their configurations, collect static and dynamic data, evaluate alarms and system events, and practice remote and networking capabilities. Upon completion of the course, students will be able to:

- Explain the difference between and typical applications of online, online periodic, and offline monitoring systems
- Plan, install, and configure the measurement points for a Trendmaster 2000 system
- Configure, gather, and view data using the Trendmaster 2000 software
- Display vibration and other data types using various plot types for machine condition analysis using the Trendmaster 2000 software
- Troubleshoot TIM failure and communication problems

ADRE for Windows® and the 208 DAIU

3

This hands-on course teaches the skills necessary to ensure the highest quality of data acquisition and presentation using the ADRE diagnostic system. The course begins with the basics in system configuration and continues through advanced database manipulation tools. The skills you learn will help you get the most value from ADRE for Windows software and the 208 DAIU. Upon completion of the course, students will be able to:

- Display vibration and other data types using various plot types for machine condition analysis
- Configure the ADRE system to collect machinery data
- Acquire data effectively for real-time analysis
- Edit, document, and store databases for future use
- Operate various ADRE tools to manipulate data and perform advanced analysis

Legacy Products and Systems

COURSE

DAYS

Snapshot* IS Portable Data Collector

2

This course teaches students how to use the Snapshot IS portable data collector to gather data, configure and download routes, and upload data once it has been collected. Upon completion of the course, the student will be able to:

- Use the Snapshot IS portable data collector
- Use the Application Manager to navigate through the various Snapshot applications
- Explain how to download a Snapshot route from System 1 to the Snapshot IS portable data collector
- Practice uploading collected data from a Snapshot unit to System 1 software and displaying the collected data
- Explain how to find a starting point for selecting band-pass filter settings

Topics include:

- Introduction to Snapshot IS
- Snapshot IS Hardware Features and Operation
- Navigating Snapshot IS Workshop
- Snapshot IS Route Configuration, Downloading, and Uploading
- Snapshot IS Data Collection Techniques
- Snapshot IS as part of a Machinery Management Program

Prerequisites:

- All GE Measurement & Control product training is conducted by our core group of instructors and experienced Field Engineers to provide a world-class training experience.

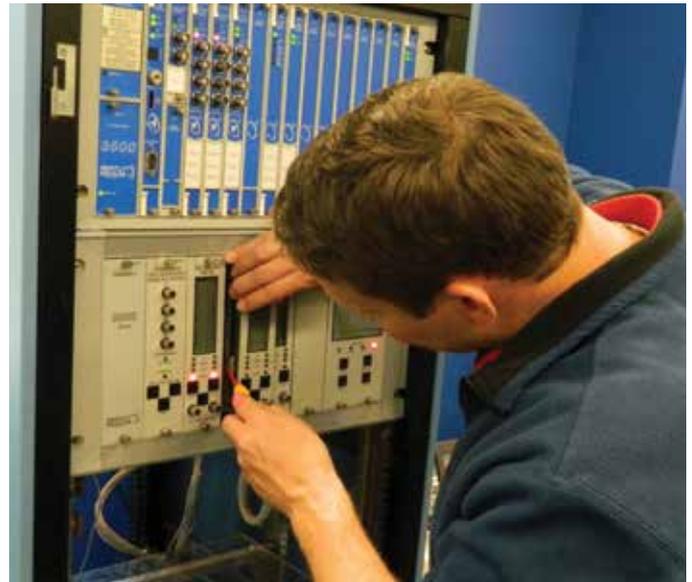


Skills Development Program

In addition to scheduled training programs, GE also works with you to develop a comprehensive Skills Development Program specifically designed to address your needs. A comprehensive Skills Development Program will help you to build sustainable competencies and maximize your return on investment on condition monitoring technologies.

The first step in our Skill Development Program is establishing a role-based competency matrix. This will be achieved by combining your organization's job descriptions and condition monitoring best practices from GE. All members of the team will be assessed against competency matrix specific to their role to identify skills and competency gaps. Based on the skill gaps identified, condition monitoring technologies deployed at site and site operational constraints, a roadmap to build sustainable competencies will be developed.

By using customized training content and state-of-art training aids, our certified instructors will conduct learner centered training sessions at your site. Later employees will work on identified on-job training opportunities under the mentorship of our subject matter experts to acquire valuable practical skills and build confidence in facing key challenges in your facility. As we progress through the program, our subject matter experts from the regional offices and factory will mentor key personnel from your organization as "power users" of the products and systems. These power users equipped with plant-specific knowledge and advanced awareness of the systems will be able extract maximum benefit from the systems deployed and improve the ROI.



If you think this would be of interest to you, we can start working on defining the competency matrix and developing the plan to make sure your teams are equipped with all the knowledge and confidence to efficiently manage your plant assets.

For more information visit: Regional contact or visit <https://www.gemeasurement.com/services#training>

For more information visit
www.gemeasurement.com/services



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