

Is iLearnVibration right for you?

iLearnVibration is an exciting new training system. It covers basic material through to the more advanced topics. The unique combination of narrated "slides," sophisticated animations, interactive simulations and other innovative tools result in a very entertaining and effective training system. But is it right for you? We have listed the features of the system that may benefit different types of users.

New condition monitoring team members

If you have just joined an existing condition monitoring group and you need to come "up to speed", iLearnVibration will give you:

- An understanding of maintenance practices
- An understanding of "reliability centered" maintenance
- An overview of condition monitoring techniques
- An understanding of the basics of vibration
- An understanding of data collectors, and how they work
- A reference to turn to when you have questions
- A source of more advanced material as your experience grows
- A way to practice with your data collector
- A way to view real vibration signatures from machines

Starting a new condition monitoring program

If you are starting a new program, there sure is a lot to know, and there is often insufficient support available to you. Knowing which machines to test, how to test them, how to set alarm limits, how to determine machine health, and how to report your findings are all part of the challenge. iLearnVibration will give you:

- An understanding of maintenance practices and condition monitoring
- A guideline of how to get the program started and grow it – and remain successful
- A review of the financial issues
- An understanding of how to select the machines to test
- An understand of measurement collection:
 - Selecting the appropriate sensor,
 - Understanding how sensors work,
 - Learn where to place the sensor on the machine
- A guideline of how to set alarms
- A review of detection versus analysis versus diagnosis versus root cause analysis
- A guideline to report writing and making recommendations

In addition:

- iLearnMachineFaults can be used to compute forcing frequencies
- iLearnHandsOn and iLearnCaseHistories can be used:
 - To build vibration analysis and diagnostic skills
 - To gain measurement skills with data collectors
 - To test your detection tools (e.g. the exception report) and software system

Operators, millwrights and others

If you do not actually use a data collector, but are involved in the operation, repair or maintenance of rotating equipment, an understanding of maintenance practices and condition monitoring is invaluable. This knowledge enables everyone to pull in the same direction.

iLearnVibration will give you:

- An understanding of maintenance practices
- An introduction to condition monitoring and vibration
- A basic introduction to vibration analysis

Experienced analysts

As an experienced analyst you may feel that you already have a good understanding of vibration analysis and diagnostic techniques. However, in addition to the fact a review of the fundamentals may be quite helpful, you may also benefit from:

- A greater understanding of signal processing
 - So that you get take better measurements
 - So that you can perform special tests
- Having a reference for diagnosing faults
- Learning news ways to improve an existing program
- Having a tool to teach millwrights, operators and other maintenance staff
 - To gain more cooperation
 - To get crucial information on operation and repair
- Having a system to teach new staff joining the group
 - A common task, yet a very time consuming task
- Having a source of reference signals to test out new data collectors
- Being able to create your own case histories in iLearnCaseHistories
 - For users with Predict/DLI or CSI systems

Trainers

If you have to train others, either professionally as part of a business, or within your organization to teach other condition monitoring or maintenance team members, our series of products will help in many ways. The improved quality of the training tools, the improved effectiveness of your training, the option of standardizing the training material, and the time saved in the preparation of your course will all result in a fast return-on-investment (ROI). Our products will provide you:

- Structured learning modules
- Tools to show signals and teach signal processing
- Tools to show animations of machine dynamics
- Tools to show real and simulated vibration patterns
- Tools to show the relationship between machine and the signals observed

Analyst requiring certification

Are you planning to achieve Level I, II, or III certification with a group such as Vibration Institute or ASNT? Well, iLearnVibration (and the other iLearnInteractive modules) can help.

Although the different certification groups have different agendas and exams, they all basically cover the same type of material for Level I, II, and III. iLearnVibration can certainly provide an excellent reference of material for Level I and II. Our topics will help you become prepared for the exams, although we would still recommend that you follow the study guides of the certification body to ensure that you have covered all of the required subjects. iLearnVibration will help you help you prepare for Level III certification, particularly in the area of signal processing, however we would suggest that additional study material will be required.

Summary

One of the benefits of a product like iLearnInteractive is that it can be used over and over. As new staff joins the group and you gain experience, iLearnInteractive will always be there to provide training, tools for measurement and analysis experience, as a reference guide, and as a refresher. iLearnInteractive is an excellent investment.