iLearnReliability™

ENTERPRISE

iLearnReliability™ [Enterprise] is reliability e-learning for your entire team that teaches reliability strategy, program management, best practices, condition monitoring and precision maintenance practices, and provides easy-to-understand awareness training for everyone that aids in developing a “reliability culture” across the plant-floor.

MOBIUS INSTITUTE

IT IS QUITE AMAZING WHAT RELIABILITY IMPROVEMENT AND CONDITION MONITORING CAN DO FOR AN INDUSTRIAL FACILITY. REDUCTION IN COSTS, IMPROVEMENTS IN AVAILABILITY, AND REDUCTION IN SAFETY AND ENVIRONMENT INCIDENTS ALL CONTRIBUTE TO THE FINANCIAL VIABILITY OF THE ORGANIZATION AND THE WELLBEING OF EMPLOYEE AND SHAREHOLDERS.

THE CHALLENGES OF RELIABILITY IMPROVEMENT

Achieving improved reliability has been proven difficult for many organizations. Some organizations hire consultants, only to find the plant returns to the "bad old days" soon after they leave. Some try training a select few to become expert in the subject, but that approach struggles because there is no plant-wide buy-in and people believe reliability improvement is the responsibility of the reliability group alone. Others try a "home-grown" approach of external courses and internally developed e-learning. And there have been other attempts, from classical RCM to Lean, Six Sigma, TPM, and others. It is not to say that those approaches don't make an improvement, but they often don't result in a sustainable improvement in reliability.

iLearnReliability™

ENTERPRISE

iLearnReliability™ [Enterprise] provides reliability training to everyone, from the most senior management and program leaders, to the condition monitoring specialists and plant-floor workforce. Everyone learns how they contribute to the reliability improvement initiative.

WHO BENEFITS

LearnReliability [Enterprise] is designed to train everyone in the plant. It includes diversified raining for senior management, strategy and implementation training for reliability program managers, skills training for condition monitoring and precision maintenance technicians and "Toolbox Talks" to help develop a "reliability culture" on the plant-floor.

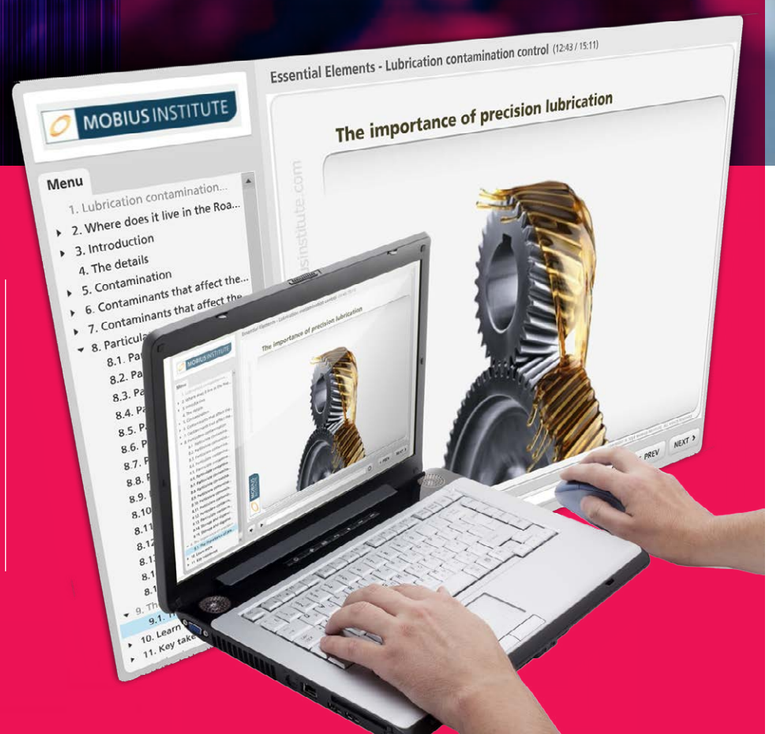
WHAT YOU LEARN

The program teaches reliability strategy, program management, implementation, best practices, condition monitoring and precision skills and how to address culture change needed to make reliability a reality at your plant. We make the complexities of reliability improvement easy to understand through our interactive e-Learning format filled with interesting 3D animations and interactive software simulators.

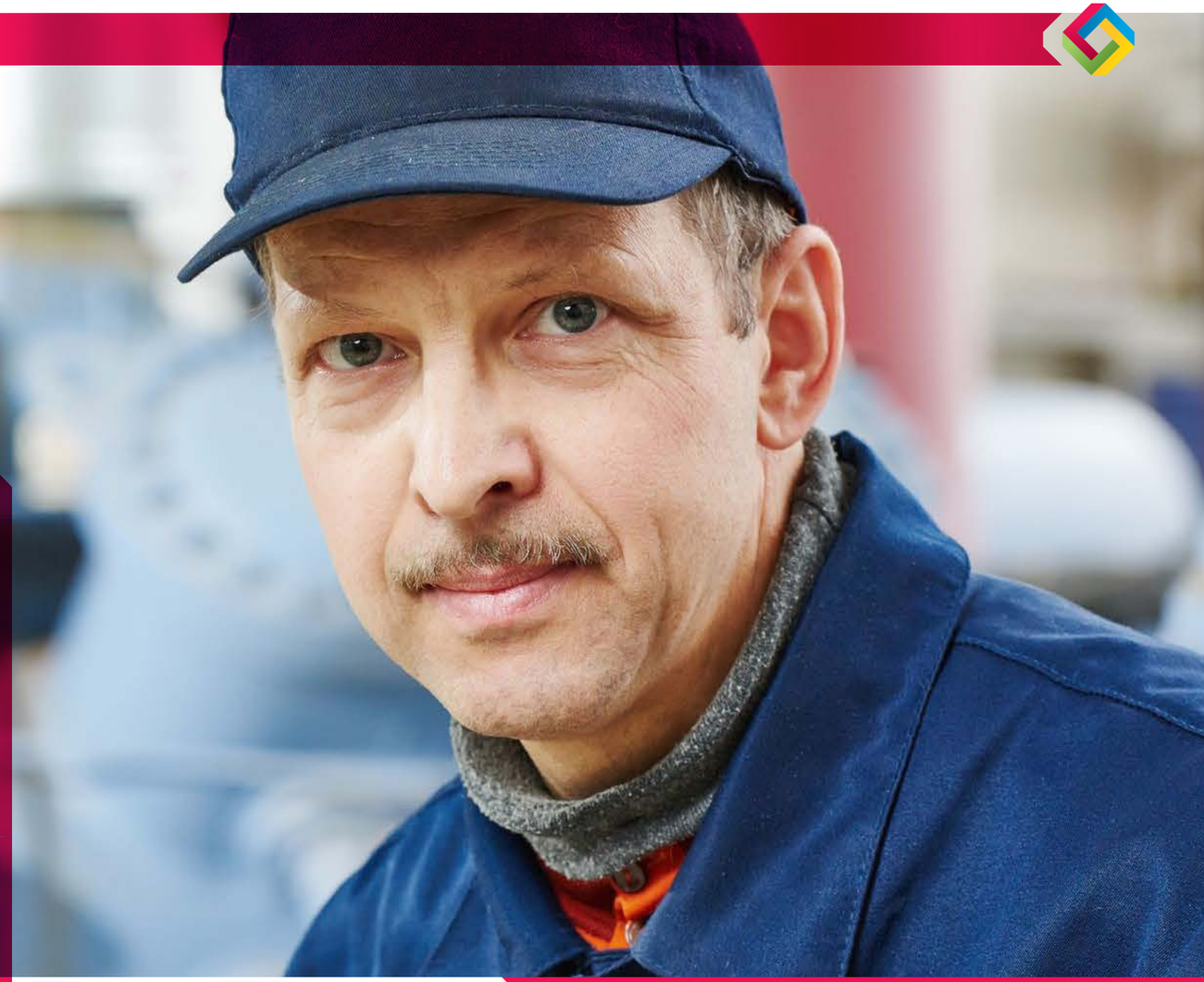
LEARN. LEAD. SUCCEED.

How does iLearnReliability work?

When you subscribe iLearnReliability [Enterprise] your team will be given access to our learning portal where everyone will access iLearnReliability modules. A person from your company (such as your reliability leader) will have complete control over who learns what. We have created a set of common user profiles so it is easy to simply create the user and assign them to the user profile.



Each module is narrated and is filled with Mobius' Crystal Clear™ animations and interactive simulations. Each module has a matching quiz. Completing the quiz will help your team member to check whether they understood the topics covered in the module. The system keeps track of the modules each employee has accessed (any module can be repeated as many times as one likes) and it keeps track of their quiz scores, which can be taken multiple times if they choose.



STRATEGY: THE ROADMAP TO RELIABILITY

One of the most important elements of iLearnReliability [Enterprise] is its teaching of reliability strategy, which we call "The Roadmap to Reliability". It considers the "big picture" of what must be implemented in order to improve reliability in an industrial plant. The Roadmap to Reliability is based on our experience and industry best practices. After establishing the financial, safety and environmental benefits related to reliability improvement, the roadmap covers:

- Foundational elements, including the requirements for strong leadership and a consideration of change management issues
- Changes that must be made to work practices, include the design/procurement process, inventory management, planning & scheduling, installation/repair/overhaul activities, operating procedures, and asset care (including lubrication and contamination control)
- Steps required to define the reliability strategy, including an asset criticality ranking, a "lean" RCM process, and a design of the CBM program
- Steps required to continuously improve the process, including root cause failure analysis, plant-wide communication, and the use of KPIs

Enterprise Modules

[EE] ESSENTIAL ELEMENTS

iLearnReliability [Enterprise] "Essential Elements" provide an introduction to reliability topics. They are useful for the people who don't need to know the details but should be familiar with the topic.

ID	TOPIC
EE-RR	Roadmap to Reliability
EE-DE	Defect Elimination
EE-ACR	Asset Criticality Ranking
EE-RCM	Reliability Centered Maintenance (RCM)
EE-MP	Maintenance Practices
EE-FMEA	Failure Mode Effects Analysis (FMEA)
EE-PMO	Planned Maintenance Optimization (PMO)
EE-CBM	Condition Based Maintenance (CBM)
EE-VIB	Vibration Analysis
EE-UT	Ultrasound Testing
EE-IR	Infrared Thermal Imaging
EE-ALIGN	Alignment
EE-BAL	Balance
EE-CC	Lubrication Contamination Control
EE-PM	Preventive Maintenance
EE-ODR	Operator Driven Reliability

[MB] MANAGER BRIEFINGS

iLearnReliability [Enterprise] "Manager Briefings" are aimed at higher level managers that primarily need to know the business case and strategic reason for implementing a reliability improvement program. They are intended to educate and to create buy-in.

ID	TOPIC
MB-M-1	Roadmap to Reliability (A Summary)
MB-M-2	Condition Based Maintenance vs. Preventive Maintenance
MB-M-3	Benefits of Reliability And CBM
MB-M-4	What is Classical Reliability Centered Maintenance (RCM)?
MB-M-7	Why Condition Monitoring does not Improve Reliability

[MT] PROGRAM MANAGEMENT

LearnReliability [Enterprise] "Management Training" modules are very detailed and explain the strategy used in a successful reliability program. They are ideal for the reliability team leadership, but also for planners and schedulers, supervisors and many others who need to know more than we provide in the Essential Elements and Toolbox Talks modules.

ID	TOPIC
MT-M-1	Roadmap To Reliability Improvement
MT-M-2	Understanding Maintenance Practices
MT-M-3	KPIs, Benchmarking, and Continuous Improvement
MT-M-4	Leadership And Culture Change
MT-M-5	Building A Master Asset List
MT-M-6	Establishing The Asset Criticality Ranking
MT-M-7	Determining Your Asset Maintenance Strategy
MT-M-9	Establishing A New Vibration Monitoring Program
MT-M-10	Supercharging An Existing Vibration Monitoring Program
MT-CM-1	An Introduction To The Condition Monitoring Technologies
MT-CM-2	Vibration Analysis And Bearing Fault Detection
MT-CM-3	Airborne And Structure-Borne Ultrasound
MT-CM-4	Oil Analysis And Wear Particle Analysis
MT-CM-5	On-Line And Off-Line Electric Motor Testing
MT-CM-6	Infrared Thermography
MT-PM-1	Precision Shaft Alignment
MT-PM-2	Field Balancing
MT-PM-3	Precision Lubrication (and Contamination Control)

Enterprise Modules

[ST] SKILLS TRAINING

iLearnReliability [Enterprise] "Skills Training" modules are the most detailed training we offer. These modules teach your skilled tradespeople how to most effectively monitor your machines, effectively diagnose faults and apply precision maintenance techniques to maximize machine operating life.

ID	TOPIC
ST-CM-1	Vibration Fundamentals
ST-CM-2	Accurate And Repeatable Data Collection
ST-CM-3	Diagnosing Common Faults With Spectrum Analysis
ST-CM-4	Vibration Analysis
ST-PM-1	Precision Shaft Alignment
ST-PM-2	Field Balancing

[TT] TOOLBOX TALKS

iLearnReliability [Enterprise] "Toolbox Talks" provide information to people working on the plant floor (operators, mechanics, electricians, etc.) on key elements of the reliability improvement that they are likely to get involved with. The modules demystify the topics and create buy-in. They also show how they can contribute to the reliability improvement effort as well.

ID	TOPIC
TT-CM-1	Condition Monitoring And Reliability
TT-CM-2	Vibration Analysis
TT-CM-3	Ultrasound
TT-CM-4	Thermography
TT-CM-5	Oil Analysis And Wear Particle Analysis
TT-CM-6	Electric Motor Testing
TT-PM-1	The Benefits Of Precision Maintenance
TT-PM-3	Shaft Alignment
TT-PM-6	Precision Balancing
TT-PM-7	Precision Lubrication

READY TO SEE IT IN ACTION?

We have provided access to two of the "Essential Elements" modules on "Lubrication contamination control" and "Vibration analysis" so you will see how they are all narrated making the study process very easy. They contain lots of animations and many "simulators" that allow you to interact with the lessons. To access our sample modules, please go to **www.mobiusinstitute.com/reliability** and click on the "Enterprise Edition" tab.

CONTACT MOBIUS TODAY!

Take your next step by contacting us. You can reach us by email at **learn@mobiusinstitute.com** or call us toll free in North America at (877) 550-3400 or worldwide at (+1) 615-216-4811.

MAKE RELIABILITY A REALITY™

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MOBIUS INSTITUTE is a worldwide provider of Reliability Improvement, Vibration Analysis and Precision Maintenance education for plant managers, reliability engineers and condition monitoring technicians, allowing plants to be successful in implementing reliability improvement programs through delivery of more easily understandable and comprehensive training of Reliability and Vibration Analysis via public, in-plant and online education programs. Since 1999, Mobius Institute has delivered superior education through its Crystal Clear™ methodology that uses innovative 3D animations and software simulations that make complex topics easier to understand.

Mobius Institute has training centers in 50 countries and its certification body is ISO 18436-1 and ISO/IEC 17024 accredited.

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