

**MAINTENANCE
RELIABILITY
TRANSFORMATION™
[MRT]**

TRAINING AND CERTIFICATION



www.mobiusinstitute.com



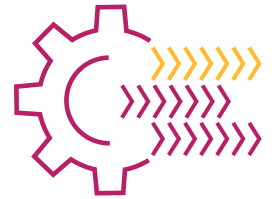
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The goal of MRT is different than ARP: the aim is for an improved maintenance department.

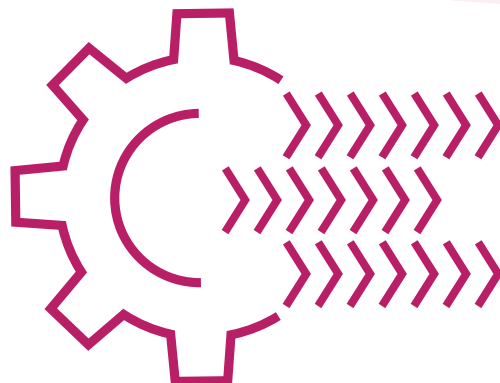
MRT focuses 100% on organizations experiencing repeated, costly, dangerous failures in a reactive maintenance environment, which have made little or no progress in reliability improvement. They don't plan and schedule, have not reviewed their maintenance tasks, suffer frequent repeat failures, and have little to no condition monitoring warning of future losses. They live in the "reactive maintenance cycle of doom," and no matter what they try, things don't improve. They need to break out of that cycle, but the idea of striving for "gold standard" reliability, as is discussed in our Asset Reliability Practitioner [ARP] courses, and as defined under the Asset Reliability Transformation [ART] process, is simply overwhelming. To be successful, they need all the fundamentals in place: the knowledge, the belief, and the strategy - and they need a realistic goal.

The Maintenance Reliability Transformation [MRT] is designed for individuals seeking to vastly reduce their reactive maintenance. Courses can be taken in-person at public venues, virtually or onsite with your team at your plant, where the instructor will share tips, additional real-life wisdom, and can answer questions as you go. We also have the courses available to take online, self-guided at your pace. You can choose the MRT TEAM PACKAGE or MRT SOLO PACKAGE, whichever suits you.

MRT SOLO PACKAGE



The MRT Solo Distance Learning Package is for one user and contains a **total training of 47 hours**. Choose either a **year or two-year** access to the training plus additional resources that will help you achieve your goal - but the training is just for you. It will take time to defeat reactive maintenance but you can take the exam and become certified. Our training will guide you every step of the way.





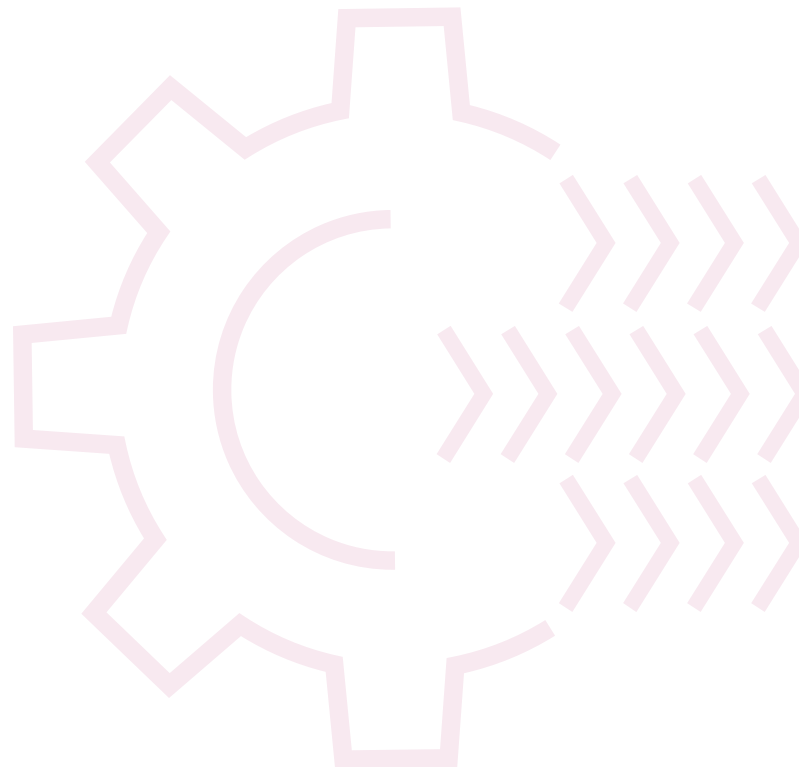
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Course #1: Preparing for the Maintenance Reliability Transformation

This instructor-led course includes all the background information and a summary of the MRT process so that you obtain the knowledge of maintenance, reliability, and condition monitoring best practices. Once you complete this course you will have the knowledge and understanding of the topics found below. Optional certification exam available.

The Instructor-Led course covers:

- An introduction to the reasons why equipment fails and what you can do about it
 - An overview of the ART process – so it is possible to understand the bigger picture
 - An overview of the MRT process and why it is so important to defeat reactive maintenance before you endeavor to achieve “gold standard” reliability and asset management
 - A more detailed understanding of the key concepts behind maintenance and reliability
 - Problem solving and root cause analysis
 - A summary of the 10 steps and 78 recommended practices
 - Generating awareness and a good relationship between maintenance and operations
 - Implementing an effective CMMS
 - Prioritizing all activities with criticality analysis and “bad actor” analysis
 - Utilizing the Mobius Institute criticality and bad actor tool to simplify this analysis
 - Developing a master asset list
 - Developing a maintenance plan with PM optimization
- Basic planning and scheduling
 - Basic spares management
 - Precision lubrication
 - Basic asset care
 - Precision maintenance practices: fastening, alignment, and balancing
 - Basic condition monitoring
 - Implementing the 5S methodology in the workshop
 - Utilizing the Mobius Institute tracking tool to monitor your progress





MRT

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Course #2: Mastering the Maintenance Reliability Transformation

If you are confident in your knowledge of maintenance best practices, reliability, and condition monitoring then this course is ideal for you. Optional certification exam available.

The instructor-led course covers:

- A brief introduction to the MRT process
- A detailed discussion of the 10 steps and 78 recommended practices
- Generating awareness and a good relationship between maintenance and operations
- Implementing an effective CMMS
- Prioritizing all activities with criticality analysis and “bad actor” analysis
- Utilizing the Mobius Institute criticality and bad actor tool to simplify this analysis
- Developing a master asset list
- Developing a maintenance plan with PM optimization
- Basic planning and scheduling
- Basic spares management
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“The Maintenance Reliability Transformation (MRT) is a step-by-step training program that guides you through the changes you must make to eliminate the root causes of your most common failures and improve the efficiency and effectiveness of your maintenance process so you can be successful without additional staff or significant cost outlay.”

-Jason Tranter, Founder and Technical Advisor of Mobius Institute





➤ How does MRT work?

The idea behind the Maintenance Reliability Transformation [MRT] process is to focus on the equipment that consumes the bulk of your time, eliminate the tasks that waste time, improve the way we manage maintenance tasks, improve the quality of the work performed, and monitor the health of the equipment so that we can plan for future failures. As a result, there will be fewer failures, more order, and less frustration!

The MRT process has 10 major steps and 78 documented “recommended practices” that guide you every step of the way. Seventy-eight may seem like a lot of steps, but if it were easy, you would not need our assistance. Besides, you need to focus on the first item. Then the second. And so on. We will provide you with a handy tool to check them off as you complete them.

But remember, we are not shooting for world-class condition monitoring, planning and scheduling, reliability analysis, or anything else. Instead, we will take small steps, one after the other, and get the reactive beast under control. And when you achieve that goal, you can follow the Asset Reliability Transformation process to achieve organization-wide, best-in-class reliability and plant performance.

➤ How does Distance Learning training work?

We have created 26 hours of video that explains the steps, plus 8 hours of “background” training. And we have additional training modules in the Team package that provide even more training and refresher modules.

➤ How can I learn more?

If you would like to learn more details, please visit the MRT details page.

For a detailed description of how the MRT training process works and how you can best utilize the process depending on your unique situation, please read the MRT process guide.

➤ Are the MRT trainings accredited to ISO/IEC 17024?

The Maintenance Reliability Transformation training (Distance Learning formats or Public Training) is not accredited to ISO/IEC 17024. However, it does have a certification exam.

➤ What is the difference between ARP and MRT?

If the primary focus is to reduce the number of breakdowns, then you need MRT. If you are looking to optimize plant performance (reduced breakdowns/downtime, reduced maintenance costs, increased output), then you need ARP.

Another key difference:

MRT is prescriptive: in addition to the background knowledge, it provides step-by-step guidance on what to do and when to do it. On the other hand, ARP is purely about reliability program knowledge and certification:

ARP-A is an overview of the big picture and all the elements.

ARP-E focuses on reliability engineering.

ARP-L focuses on leadership, implementation, and the business case.





Analogy:

You own a '69 Mustang that barely runs. MRT will teach you exactly what to do to get it running so it won't break down. ARP provides the knowledge required to get it running and make it a showpiece car: fast, beautiful, and reliable. ARP will give you the knowledge necessary to understand the mechanics, diagnostic tests, and mechanical best practices. Also, how to put the team together to get it to top performance. But it won't provide detailed guidance on what to do first, second, third, etc. – there are just too many steps.

➤ Why does MRT public training have two levels?

We have developed two courses and a certification exam to meet two different needs.

Course #1: Preparing for the Maintenance Reliability Transformation

If you are new to maintenance best practices, reliability, and condition monitoring, the steps and recommended practices will not make much sense. This course includes all the background information and a summary of the MRT process to prepare you. After this course, you will have the knowledge and understanding to go ahead with the detailed MRT process.

Course #2: Mastering the Maintenance Reliability Transformation

If you are confident in your knowledge of maintenance best practices, reliability, and condition monitoring (for example, you have recently been through ARP-A or the above course) and you feel ready to implement the MRT process, then this course will be ideal.

➤ Am I required to take MRT level one to take level two?

No, you can start with the training that fits your needs and wants.

➤ What are the experience requirements to become certified?

You are required to complete the training and pass the exam.

➤ How long is the exam?

The exam is 50 questions, and you have 2 hours to complete it.

➤ What do I receive when I become certified?

You will receive a certificate of completion.





Mobius Institute Board of Certification is an accredited certification body per ISO/IEC 17024 and ISO 18436-1 authorized to provide certification in accordance with ISO 18436-1 and 18436-2.

Mobius Institute Board of Certification (MIBoC) is an impartial and independent entity that is directed by scheme and technical committees to ensure that its certification meets or exceeds the requirements defined by the applicable International Organization for Standardization, ISO 18436 standards.



MOBIUS INSTITUTE is a worldwide provider of reliability improvement, condition monitoring and precision maintenance education to industrial 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.

For more information about additional training courses, software tools, industry terminology and definitions, accredited certification, and specific course details, visit:

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You must never stop learning.

