MASTERCLASS MAINTENANCE AND RELIABILITY TECHNICIANS

BII WORLD
Engage • Enlighten • Empower

Real Time Online Classroom Training

Test

16 Hours Live Interactive Sessions

Comprehensive Learning Kit

4 - 8 April | 2022

13:00 - 17:00 Eastern Daylight Time (EDT)

18:00 - 22:00 Greenwich Mean Time (GMT)

10%
Early Bird
Discount till 15th
December 2021

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TRAINER PROFILE

MICHAEL EISENBISE

Reliability Process Implementation Specialist
40⁺ Years Experience in Maintenance & Reliability

Michael Eisenbise has 43 years of maintenance technology and reliability experience.

Eisenbise is a Certified Maintenance and Reliability Professional (CMRP) with the Society for Maintenance and Reliability Professionals Certifying Organization (SMRPCO), a Certified Plant Engineer (CPE) with the Association of Facility Engineers (AFE), a Certified Plant Maintenance Manager (CPMM) with the AFE, and a Certified Reliability Leader (CRL) with the Association of Asset Management Professionals. He is a registered Professional Engineer (PE) in Florida. Eisenbise holds a Bachelor's Degree in Engineering, a Master's Degree in Mechanical Engineering from Tennessee Technological University, and a Master's Degree in Maintenance and Reliability from Monash University in Australia.

Michael is a former Chairman of the Society for Maintenance and Reliability Professionals. SMRP), a past board member for SMRP Certifying Organization, SMRPCO, past Chairman of the Houston Chapter of the Society of Reliability Engineers, and past Regional Vice President for the Association of Facility Engineers – Region 9

Course Overview

Reliability is imperative to remain competitive in the world market. Reactive maintenance, poor repair techniques, re-occurring downtime must be eliminated. This can be accomplished by understanding the techniques learned in the training course.

This course is based on the 4 domains of SMRP's Body of Knowledge designed specifically for Maintenance Technicians. Each person will learn the techniques of a Reliable Technician and be able to eliminate many failures at any operation.

Key Learning

The CMRT exam tests competency and knowledge of specific tasks of four (4) domains:

- Maintenance Practices
- Preventative and Predictive Maintenance
- Troubleshooting and Analysis
- Corrective Maintenance

Who should attend?

- Maintenance Technician
- Maintenance Engineer
- Reliability Technician
- Reliability Engineer

Training Methodology:

⟶ Real Time Online Delivery
⟶ 18 hours of Live Interactive Sessions
⟶ Assessments
⟶ Learning Kit
⟶ **Break Down Day Timing**

Session 1	60 Minutes
1st break	10 Minutes
Session 2	60 Minutes
2nd break	10 Minutes
Session 3	60 Minutes
3rd break	10 Minutes
Continuation of Session 3	30 Minutes

CMRT Certification:

The Certified Maintenance & Reliability Technician (CMRT) program is the leading credentialing program for the knowledge, skills and abilities of maintenance and reliability technicians.

The certification assesses the knowledge and skills of those responsible for preventative, predictive and corrective maintenance – multi-skilled individuals who play a critical role in the success of organizations worldwide. Earning the CMRT credential indicates that you have achieved a level of ability consistent with the requirements for competence on the job as a multi-skilled maintenance and reliability technician.

To register for CMRT exam, click on the below link and follow the on-screen instructions.

https://smrp.org/Certification/Register-for-an-exam

Day 01

Domain 1 - Maintenance Practices

- Adherence to safety, health, and environmental standards and polices.
- Work with production personal to coordinate maintenance activities to ensure that appropriate Lockout/Tagout procedures, Process Overview, and Work Permits are in place and followed.
- Perform appropriate lockout/tagout procedures to ensure a zero-energy state exists prior to performing work on an asset.
- Prior to preforming maintenance, preform an inspection on maintenance tools and equipment to ensure conformance to established standards/guidelines, extend life of maintenance tools and equipment, and ensure safe operation of maintenance tools and equipment.
- Use maintenance tools and equipment in accordance with manufactures guidelines, established safety procedures, and accepted best practices for tool use.

Day 02

Domain 1 - Maintenance Practices (Continued)

- Utilize measuring tools in a manner that will ensure accurate measurements are taken properly. This section includes basic math, calibration of tools, conversion of measuring and engineering units, etc.
- Handle all maintenance material and parts using established best practices and in accordance with established standards/procedures to reduce the potential of damaging parts or assets.
- Perform appropriate housekeeping to ensure adherence to site standards/procedure, and ensure a safe and orderly job site.
- Document maintenance activities properly in the maintenance management system. Record the appropriate asset maintenance history to support future planning and scheduling efforts and root cause failure analysis efforts

Day 03

Domain 2 – Preventive and Predictive Maintenance

- Preform preventive and predictive maintenance to maximize asset reliability.
- Apply predictive maintenance techniques based on asset observation and data analysis.
- Lubricate assets in a manner to ensure reliable performance. Includes filtering systems, lubrication specifications, lubrication principles, lubrication routes, etc.
- Align and perform alignment checks on rotating assets to ensure reliable performance and prevent damage. Includes discussion of soft foot, proper shimming, growth due to heat, etc.
- Perform checks on safety systems and devices to ensure compliance with company safety, health, and environmental policies. Understand the consequences of bypassing safety systems and operation of safety systems.

Day 04

Domain 3 – Troubleshooting and Analysis

- Gather information related to a maintenance request by reviewing work order history, interviewing operations personnel, etc. in order to determine the general nature of the problem.
- Verify the problem is valid by performing the appropriate troubleshooting activities and reviewing historical and operational information.
- Obtain appropriate technical documentation for use in troubleshooting.
- Investigate previous maintenance activities by reviewing asset history in order to facilitate any troubleshooting activities.
- Identify the cause of the problem using a systematic process of elimination.

Day 05

Domain 4 – Corrective Maintenance

- Verify troubleshooting analysis by disassembling and inspecting asset components. Confirm that the identified corrective action is appropriate.
- Repair the malfunction by performing the required corrective maintenance tasks in accordance with best maintenance practices in order to return the asset to the desired operating condition.
- Monitor the asset after it has been repaired to determine if the repair was successful.
- Release repaired asset for return to service using standard operating procedures.

FAQs

Does BII Online Virtual Training have the same value as traditional classroom training?
   Yes, BII Online Virtual Training offers participants; same training system as in-person, i.e face-to-face engagement with instructors, course material, interactive participation of all delegates, and personal support that they would expect to find in a traditional classroom.

What are main features of your online courses? Are they on-demand? Is it different content from the in-person offering?
   The content of the virtual training is similar to the in-person sessions and customized presentation makes it a richer online learning experience. As always, we will share presentation materials with attendees for later reference.
   The online courses are not on-demand and recordings cannot be purchased. They are set on scheduled dates, live with an instructor and co-host via webinar software. While the day is shorter than an in-person session (4hrs vs 8hrs), timing are adjusted to accommodate attendees in different time zones and allow more time for one-on-one conversations via the Q & A.

What are the technical requirements for participation in a virtual course?
   All you need to participate in virtual training are:
· Desktop or Laptop or Tablet Computer, and Internet connectio
· Webca
· Headset with built-in microphon

Can I attend an online training session if I have a Macintosh computer?
   Yes, Our Online training systems does allow Macintosh computers, PCs, and computers running Linux to easily enter any of our online training sessions.

What type and version of browser will I need for online classes?
   It is recommended that you use the latest version of Firefox, Chrome or Internet Explorer for Windows and Firefox or Safari for Mac. Each of these is available for free download and also suggested you have the PDF Reader

How do I have access to the trainer for questions?
   As in the classroom, you will see the trainer in front of you and have the opportunity to ask questions at any time - all via audio and video transmission.

Is there a mute option within an online training session to minimize background noise from my audio connection?
   Yes, the Mute button will display to the right of your name as you hover your mouse over your name shown in the Participants panel on the top, right side of the Web conferencing screen.

What if I miss few sessions of the online training program?
   The training will be simultaneously recorded which will be provided to you as per request & requirement

Do I get a Certificate at the end?
   Yes, you will get a PDF version of your certificate of completion

Upcoming Courses 2022

Online Training	Date	Time	
Masterclass Maintenance and Reliability Practitioners	07 - 11 March	10:00 to 14:00 Eastern Daylight Time (EDT)	15:00 to 19:00 Greenwich Mean Time (GMT)
Maintenance Planning Scheduling & Control	14 - 18 March	10:00 to 14:45 Eastern Daylight Time (EDT)	14:00 to 18:45 Greenwich Mean Time (GMT)
Maintenance Planning and Scheduling (Spanish)	04 - 08 April	12:00 to 16:30 Central Daylight Time (CDT)	17:00 to 21:30 Greenwich Mean Time (GMT)
Masterclass Maintenance and Reliability Practitioners	25 - 29 April	13:00 to 17:00 Eastern Daylight Time (EDT)	17:00 to 21:00 Greenwich Mean Time (GMT

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