



BII WORLD

Engage • Enlighten • Empower



MASTERCLASS MAINTENANCE & RELIABILITY PRACTITIONERS

06 - 10 March 2023

10:00 - 14:00 Eastern Standard Time (EST)

15:00 - 19:00 Greenwich Mean Time (GMT)



Online Virtual Classroom Training



18 Hours Live Interactive Sessions

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



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COURSE DESCRIPTION

Companies today face increasing competition and decreasing margins in the global arena. A culture combined with visionary leadership, relentless pursuit of process and cost reduction done right are the ingredients required for survival and growth. Equipment must be safe, reliable, and process variability must be eliminated. Your employees must be motivated and supported with targeted training and a robust and efficient organizational structure.

This course is designed to heighten the learning experience and to provide an immersive training environment that maximizes the interaction between attendees and the instructor, and between the attendees



CERTIFICATION

The Certified Maintenance & Reliability Professional (CMRP) program is the #1 leading credentialing program for certifying the knowledge, skills, and abilities of maintenance and reliability professionals worldwide.

The CMRP is accredited by the American National Standards Institute (ANSI), which follows globally recognized ISO standards for its accreditation and processes.

Earning this certification means earning a coveted credential recognized across all industries internationally.

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

<https://smrp.org/CMRP-Registration>

To find the nearest authorised testing centers, click on the below link

<https://smrp.org/Certification/Test-Center-Search>



LEARNING OBJECTIVES

- Improve attendees understanding of the best practices of Maintenance and Reliability centered around the SMRP's 5 pillars of excellence.
- Define Known Maintenance and Reliability Best Practices
- Develop and understand maintenance/reliability leading and lagging KPIs for an Organization
- Understand the Maintenance Planning and Scheduling Process
- Understand storeroom processes
- Develop a PM Procedure
- Utilize ISO standards to define the following for specific assets:
 - Equipment hierarchy
 - Equipment boundaries
 - Failure mechanisms
 - Failure causes
 - Detection method
 - Maintenance activity
- Learn what works and what does not work in regard to improving equipment reliability





TRAINING METHODOLOGY

1. Real Time Online Delivery
2. 18 hours of Live Interactive Sessions
3. Assessments
4. Learning Kit

Each delegate will receive the following handout material in an electronic format.

- White paper which describes how to provide criticality ratings to assets and avoid the common mistake of applying risk ratings to assets.
- Discussion of the six failure curves
- Sample document on how to publicize short term wins in order to garner support for a maintenance and reliability program.
- All hyperlinks in slides.
- CMRP Candidate Guide for Certification
- Sample CMRP test, in MS Word format, along with answers.
- White paper explaining Mean Time Between Failures (MTBF) and the pitfalls of using MTBF.
- Noland and Heaps Reliability Centered Maintenance Document published in December 1978. Document utilized to launch RCM. Rare typed document, that has been scanned.
- Phases of a lubrication program
- Presentation, to include notes page. Most information presented is included in notes.
- Reliability Block Diagram (RBD) document describing RBD calculations.
- Reliability Engineering Skills MS XL document that describes the majority of Reliability Engineering skills and skill levels. Can be used to develop job descriptions, etc.
- Weibull data in MS XL can be used by delegates to practice Weibull graphing.
- Complete information on the sample graphs included in presentation
- Weibull graph paper to be used to practice Weibull plotting.
- Article on Barringer Production Reliability



WHO SHOULD ATTEND?

- Maintenance Managers
- Maintenance Superintendents
- Maintenance Engineers
- Maintenance Planners
- Reliability Engineers
- Plant Managers
- Engineering Managers
- Manufacturing Managers
- Production Managers
- Operations Managers
- Asset Managers





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



SUGGESTED READING MATERIALS FOR CMRP EXAM:

- Maintenance & Reliability Best Practices
by Ramesh Gulatti
- Making Common Sense Common Practice
by Ron Moore
- Reliability Centered Maintenance
by John Moubray



DAY 1

- 1.1. Course Overview
- 1.2. Introduction of Speaker
- 1.3. Overview of files provided to delegates,
- 1.4. Certified Maintenance and Reliability Professional (CMRP) sample test
- 1.5. Introductions of Delegates
- 1.6. What would the delegates like to get out of this course?
- 1.7. Module 1 – Body of Knowledge (BOK) Pillar 1 Business & Management.
 - 1.7.1. Create strategic direction and plan
 - 1.7.2. Administer strategic plan
 - 1.7.3. Measure performance
 - 1.7.4. Managing organizational plan
 - 1.7.5. Communicate with stake holders
 - 1.7.6. Manage environmental –health-safety risk

DAY 2

- 1.2.1. Module 2- BoK Pillar 2 Manufacturing process reliability
 - 2.1.1. Understanding the applicable processes
 - 2.1.2. Apply process improvement techniques
 - 2.1.3. Manage effects of change to processes and equipment
 - 2.1.4. Maintain processes in accordance with applicable standards and regulations

DAY 3

- 3.1. Module 3 -BoK Pillar 3 Equipment Reliability
 - 3.1.1. Determine equipment reliability expectations
 - 3.1.2. Evaluate equipment reliability and identify improvement opportunities



DAY 4

• 4.1. Module 3-BoK Pillar 3 Equipment Reliability - Continued

- 4.1.1. Establish a strategic plan to assure reliability of existing equipment
- 4.1.2. Establish a strategic plan to assure reliability of new equipment
- 4.1.3. Cost-justify selected plans for implementation
- 4.1.4. Implement selected plans to assure equipment reliability
- 4.1.5. Review reliability of equipment and adjust reliability

4.2. Module 4- BoK Pillar 4 Organization & Leadership

- 4.2.1. Determine organizational requirements
- 4.2.2. Analyze organizational capability
- 4.2.3. Develop the organization structure
- 4.2.4. Develop personnel
- 4.2.5. Lead and manage people
- 4.2.6. Determining organizational requirements

4.3. Module 5- BoK Pillar 5 Work Management

- 4.3.1. Identify, validate, and approve work
- 4.3.2. Prioritize work
- 4.3.3. Plan work
- 4.3.4. Schedule work
- 4.3.5. Execute work
- 4.3.6. Document work
- 4.3.7. Analyze work and follow-up
- 4.3.8. Measure work management performance

DAY 5

5.1. Module 5- BoK Pillar 5 Work Management - Continued

- 5.1.1. Plan and execute projects
- 5.1.2. Use information technologies effectively
- 5.1.3. Manage resources and materials

5.2. Module 6- Other maintenance and reliability topics

- 5.2.1. Maintenance metrics and formulas
- 5.2.2. Maintenance and reliability definitions
- 5.2.3. Reliability in Design
- 5.2.4. Effective teams
- 5.2.5. Total productive maintenance – TPM
- 5.2.6. Crow-AMSAA Reliability Growth
- 5.2.7. Weibull Analysis/Distribution
- 5.2.8. Condition monitoring techniques
- 5.2.9. 7 Habits of Highly Effective People



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 connection
- Webcam
- Headset with built-in microphone

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



Please complete this form and send it back to
mithun.siddartha@biworld.com

Event Code: OL TE 50

Delegate Details

1. Name: Mr/Mrs/ Ms
.....
Job Title:
Email:
2. Name: Mr/Mrs/ Ms
.....
Job Title:
Email:
3. Name: Mr/Mrs/ Ms
.....
Job Title:
Email:

Payment Details

METHOD: CREDIT CARD OR WIRE TRANSFER

Please debit my
 Visa Eurocard /Mastercard Amex Diners club

Card Billing Address:.....
 Street: City:.....
 Zip/Postal:
 Card Holders Name:
 Email Address:
 Card Holders Signature:

Card Number

Credit Card CVV2/ CVC / CID Number:
 Visa / Mastercard Amex (4-digit code on the front)
 (3-digit code on the back)

Valid from: / Expiry Date: /

I agree to BII debiting my card

Company/Organisation Detail

Name:
 Person to Contact:.....
 Email:
 Address:

 City:
 Country:
 Contact No:
 Type of Business:
 Website:

Authorization and Acceptance of Sales Contract & Terms & Conditions

I hereby declare I am authorised to sign this contract and terms & conditions in the name of the company/organisation:

Name:.....
 Date:.....
 Signature:.....

1 Delegate Fee **USD 1199 Per Delegate**
 (Delegate fee does not include CMRP Exam fee)
 20 USD administration charge and any applicable withholding or any other tax or fee will be applied

TERMS & CONDITIONS:

1. Payment terms: BII World LTD requires the full payment of the invoiced amount within 7 working days from the issue date of the invoice. BII World LTD reserves the right to refuse entry to any client who does not pay the invoice in full and on time. The registration fee includes: Training documentation and admission to all training sessions.
2. Cancellation by client: The client has the right to cancel his/her participation in the event. Cancellation must be received by BII World LTD in writing either by mail or fax. If the client cancels the event, he/she will get two options:
 - A. **CREDIT NOTE:** Choose 2-year credit note, BII World LTD will send all the schedule training event details throughout the year. Delegate has the right to choose and attend any of the training programs (valid 2 years).
 - B. **NOMINATION:** In this option delegate can nominate/refer someone from his/her group/company to attend the particular training program on behalf of the actual delegate.
3. Cancellation by BII World LTD : While every reasonable effort is made to adhere to the advertised program, circumstances can arise which may cause changes in the program, including but not limited to changes in the content, date(s), or special features of the planned event. Such circumstances include but are not limited to acts of terrorism, war, extreme weather conditions, compliance with government requests, orders and legal requirements, failure of third-party suppliers to timely deliver, and failure to register the minimum target number of attendees for a given event. BII World LTD reserves the right to change the content, date(s), and/ or special features of an event, to merge the event with another event, or to postpone it or cancel it entirely as appropriate under the circumstances. Client agrees that BII World LTD shall not be liable for any cost, damage or expense which may be incurred by client as a consequence of the event being so changed, merged, postponed or cancelled and client agrees to hold BII World LTD harmless and to indemnify BII World LTD in case of liability caused by any such changes, mergers, postponements or cancellations.
4. Cancellation of the event: In case BII World LTD cancels an event, then client can choose any of the below mentioned options:
 - (a) BII World LTD will refund full payment to the client within 15 business days.
 - (b) Client can choose the credit option for 2 years, for more details please read term no-2 part (a)

5. Postponement of the event : In case BII World Ltd postpones the event to a new date, then client can choose any of the below mentioned options.
 - (a) The client can attend the course on the postponed dates.
 - (b) Client can choose the credit option for 2 years, for more details please read term no-2 part (a)
6. Client's identification information. By signing of this sales contract and these terms and conditions the client gives full right to BII World LTD to share the client's identification information, i.e. client's name, address, email addresses, phone numbers and names of representatives and website with other clients who participated in the same event. The client has the right to opt out of this clause by written notice to BII World LTD.
7. Governing law: This contract shall be governed by and construed in accordance with the laws of the Province of Alberta, Canada. Any disputes arising under or in connection with this registration form shall be settled before the competent court in Canada.
8. Indemnification: To the fullest extent permitted by the law, you agree to protect, indemnify, defend and hold harmless BII World LTD, its owners, managers, partners, subsidiaries, affiliates, officers, directors, employees and agents, from and against any and all claims, losses or damages to persons or property, governmental charges or fines, penalties, and costs (including reasonable attorney's fees) (collectively "the Claims"), in any way arising out of or relating to the event that is the subject of this contract, and regardless of negligence, included but not limited to, Claims arising out of the negligence, gross negligence or intentional misconduct of BII World LTD employees, agents, contractors, and attendees; provided, however, that nothing in this indemnification shall require you to indemnify BII World LTD indemnified parties for that portion of any Claim arising out of the sole negligence, gross negligence or intentional misconduct of the BII World LTD parties.
9. Other currencies. In case that client requests payment in other than official currency (USD), BII World LTD reserves the right to apply 5% currency risk surcharge to the actual exchange rate.
10. Other Conditions: Any terms or conditions contained in the client's acceptance which contradict or are different from the terms and conditions of this registration document shall not become part of the contract unless individually negotiated with BII World LTD and expressly accepted by BII World LTD.