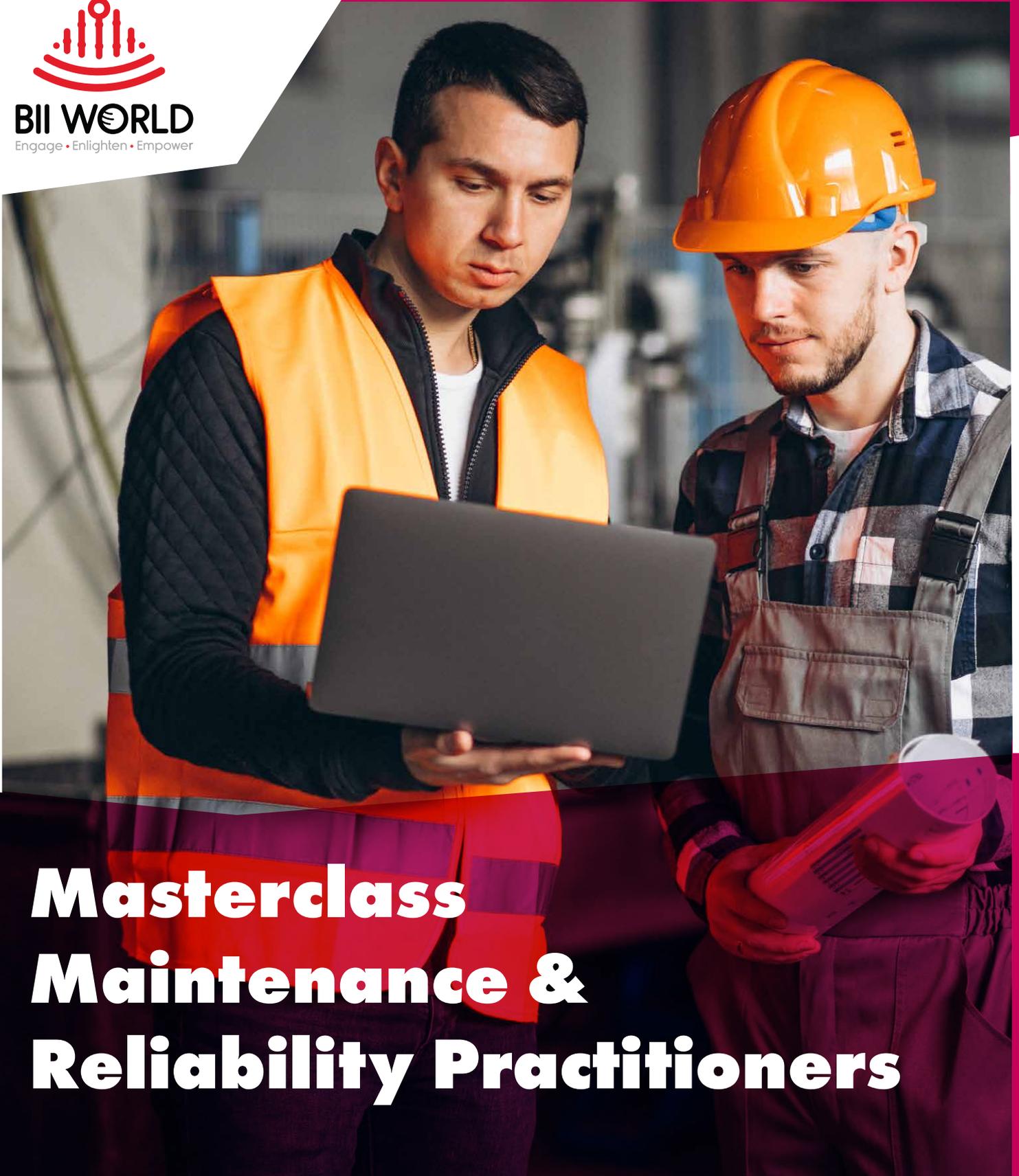




BII WORLD
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Masterclass Maintenance & Reliability Practitioners

24 - 26 April 2023

Edmonton, Canada

www.biiworld.com



Instructor:
Michael Eisenbise

**Former BP Principal Reliability Engineer for
BP Refining-Retired.**

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

Michael 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) and, current Chairman of the Houston Chapter of the Society of Reliability Engineers, and Regional Vice President for the Association of Facility Engineers – Region 9.



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 their peers.

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.

Training Methodology



Classroom lectures with relevant and upto date case studies and exercises.

Learning Objectives



- Improve your 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 maintenance leading and lagging KPIs for an Organization
- Define the Maintenance Planning and Scheduling Process
- Develop a PM Procedure`
- Define failures modes for specific components and assets
- Learn what works and what does not working regard to improving equipment 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

Course Duration

24 hours spread over 3 days



Day 1

09:00 - 10:30

⌚ 90min

Course Overview

- Safety - What to do in an emergency
- Introduction of Speaker
- Interactive test
- Introductions and course objectives & Course Overview

10:30 - 10:45 Coffee Break

⌚ 90min

10:45 - 11:45

⌚ 60min

BOK Pillar 1: Business & Management

- Strategic versus tactical planning
- Creating strategic direction & plan
- Developing the business case
- Develop tactical plan
- Creating measurement and performance evaluation

11:45 - 11:55 Short Break

⌚ 10min

11:55 - 13:00

⌚ 65min

BOK Pillar 1: Business & Management (Continued)

- Elements of a Plan
- Managing change (Discuss 7 steps of change and system not analyzing itself.)

13:00 - 14:00 Lunch

⌚ 60min

14:00 - 14:15

⌚ 15min

BOK Pillar 1: Business & Management (Continued)

- Maintenance and Operations performance agreements

14:20- 14:55

⌚ 35min

BOK Pillar 2: Manufacturing Process Reliability

- Understanding the manufacturing process &
- Implementing process/continuous improvement
- (Discuss talking to operators and vulnerability study)
- Barringer Process Reliability - plotting and benchmarking
- Manufacturing effectiveness techniques (die exchange)
- Safety, Security, Health, and Environmental (SSHE) issues (Discuss safety pyramid)

14:55- 15:30

⌚ 35min

BOK Pillar 3: Equipment Reliability

- Maintenance and Reliability Pyramid (Distribute SAMI pyramid)
- Determining process and equipment performance expectations
- Establishing a maintenance and reliability strategy to assure performance goals (Include equipment reliability strategy and asset health monitoring)

15:30 - 15:45 Coffee Break

⌚ 15min

15:45- 17:00

⌚ 75min

BOK Pillar 3: Equipment Reliability

- Equipment hierarchy validation
- Equipment criticality vs equipment risk
- Basic elements of a maintenance strategy - lubrication plan

⌚ 17:00

Close of the day 1



Day 2

09:00 - 10:30

⌚ 90min

BOK Pillar 3: Equipment Reliability (Continued)

- FMEA/FMECA
- RCM to include CBM/PdM
- RCA
- 5 Why's
- Basic elements of a maintenance strategy - Failure mode based maintenance

10:30 - 10:45 Coffee Break

⌚ 15min

10:45 - 11:45

⌚ 60min

BOK Pillar 3: Equipment Reliability (Continued)

- Basic elements of a maintenance strategy - Precision maintenance
- Writing effective PMs
- OEE
- Establishing policies and procedures
- Asset health monitoring

11:45 - 11:55 Short Break

⌚ 10min

11:55 - 13:00

⌚ 65min

BOK Pillar 3: Equipment Reliability (Continued)

- Cost-justifying the proposed equipment reliability plan
- FRACAS
- RBD and RAM Modeling

13:00 - 14:00 Lunch

⌚ 60min

14:00 - 14:45

⌚ 45min

BOK Pillar 4: Organization & Leadership

- Determining organizational requirements
- Analyzing organizational capability

- Personnel development/developing competency based learning
- Leadership development and growth
- Communicating maintenance and reliability plan to the organization

14:45 - 15:30

⌚ 45min

BOK Pillar 5: Work Management

- Identifying work
- Developing a work prioritization system
- Effectively planning work - backlog management
- Effectively planning work - kitting
- Effectively planning work - shutdown turnaround (STO) planning

15:30 - 15:45 Coffee Break

⌚ 15min

15:45 - 17:00

⌚ 75min

BOK Pillar 5: Work Management (Continued)

- Effectively scheduling work
- Documenting work execution
- Analyzing work history and following up
- Craft Productivity
- Planning and executing capital projects
- Effectively utilizing work management technology - CMMS/EAM systems
- Effectively utilizing work management technology - Data mining systems
- Effective materials management

⌚ 17:00

Close of the day 2



Day 3

09:00 - 10:30

⌚ 90min

Other maintenance and reliability topics

- Maintenance metrics and formulas
- Maintenance and reliability definitions

10:30 - 10:45

Coffee Break

⌚ 15min

10:45 - 11:45

⌚ 60min

Other maintenance and reliability topics

- Reliability in Design
- Teams
- TPM
- 5's
- Crow AMSAA

11:45 - 11:55 Short Break

⌚ 10min

11:55 - 13:00

⌚ 65min

Other maintenance and reliability topics

- Weibull Analysis
- Condition Maintenance Techniques

Close of the day 3

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 Mourbray



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Masterclass Maintenance & Reliability Practitioners (Online)



Facilitator : **Michael Eisenbise**
Date : **06 - 10 March 2023**
Timings : **10:00 - 14:00 Eastern Standard Time (EST)**

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.

Michael Eisenbise the facilitator for this course has 43 years of maintenance technology and reliability experience. He 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 also a registered Professional Engineer (PE) in Florida.

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Maintenance Planning Scheduling & Control (Online)



Facilitator : **Dave Dyer**
Date : **13 - 17 March 2023**
Timings : **10:00 - 14:45 Eastern Standard Time (EST)**

This course is based on an integrated maintenance model that has been used by leading companies and consultants with success and recognised as best practice. Participants will learn the total impact that maintenance can have on a business, identify key elements (and value) of effective maintenance for their own plants to not only reduce costs but also improve performance.

Dave Dyer the facilitator of this course is a highly experienced in maintenance improvement, change management, continuous improvement and capability development as a management coach and trainer. He has worked internationally across Europe, America, the Middle East and Africa with extensive experience in Oil and Gas, the Chemicals sector and manufacturing as well as working with clients in Steel and Power Generation.

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Maintenance Best Practices for Leadership & Supervision (Online)



Facilitator : **Andy Gager**
Date : **20 - 24 March 2023**
Timings : **10:00 - 14:45 Eastern Standard Time (EST)**

Enhance your performance and strengthen your workforce by improving your Leadership & Supervisory skills and be confident that you can be successful in meeting the difficult challenges of today's business world. Supervisors are the first line of management in any organization.

Andy Gager the facilitator of this course is recognized as an industry leading expert in facilitation, global implementations of operations best practices, maintenance systems, and supply chain with over 20 years of industry experiences ranging from warehousing operations to plant management and over 20 years of consulting and facilitating trainings. He has worked extensively in the manufacturing, oil & gas, food & beverage, facility management, power gen, pharma, and transportation industries.

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Masterclass Maintenance & Reliability Practitioners (Face to Face)

Facilitator: **Michael Eisenbise**

Date : **19 -21 April 2023**

Country : **Toronto, Canada**



Companies today face increasing competition and decreasing margins in the global arena. A culture of disruptive innovation combined with visionary leadership and relentless pursuit of process improvement and cost reduction done right are the ingredients required for survival and growth. Equipment must be safe and reliable and process variability must be eliminated.

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Advanced Turnaround Management (Online)

Facilitator : **Dave Dyer**

Date : **24 - 28 April 2023**

Timings : **10:00 - 14:45 Eastern Standard Time (EST)**



The purpose of the course is to use the Model of Excellence for Turnarounds and the principles of Challenge Planning to equip attendees with an advanced approach to Turnaround Management. The course is backed by real situations, high levels of interaction, group exercises and multiple case studies. It will explore the underlying mechanisms and levers that shape a Turnaround to demonstrate why we sometimes succeed or fail and introduce new conceptual approaches that can increase our chances of succeeding.

Laurie Dummett the facilitator of this course is an award-winning consultant and trainer with over 25 years experience in maintenance. He has developed a range of maintenance “models of excellence” with inputs from authors, international lecturers and some of the world’s leading consultants and operators.

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Masterclass Maintenance & Reliability Practitioners (Online)

Facilitator : **Michael Eisenbise**

Date : **15 - 19 May 2023**

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



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