MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

RISK-BASED INSPECTION MANAGEMENT ASSESSMENT (RBI)

"Optimizing Asset Integrity and Minimizing Risk through RBI Strategies"

Schedule

Date	Venue	Fees (Face-to-Face)
17 - 21 Aug 2026	London - UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

This advanced training equips participants with the knowledge and tools to implement Risk-Based Inspection (RBI) strategies effectively, ensuring asset reliability, regulatory compliance, and optimized maintenance schedules. By integrating risk assessment and inspection planning, organizations can focus resources on the most critical components, reduce unplanned failures, and extend asset life.

The course blends practical case studies, industry standards, and hands-on exercises to build competence in RBI methodology and application.

Objectives

By the end of this course, participants will be able to:

- Understand RBI principles, methodology, and regulatory framework.
- Assess asset risks based on probability of failure (PoF) and consequence of failure (CoF).
- Develop and implement effective RBI programs for static equipment and piping systems.
- Use RBI software tools to prioritize inspection activities.
- Optimize inspection intervals and reduce unnecessary inspections.
- Enhance asset integrity and improve plant safety performance.

MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

Why Attend

- Gain internationally recognized RBI knowledge applicable across industries.
- Learn how to apply risk-based thinking to inspection management.
- Reduce costs and improve reliability through targeted inspection planning.
- Ensure compliance with international standards (API 580, API 581).
- Improve decision-making on maintenance and shutdown strategies.

Target Audience

This program is designed for:

- Inspection engineers and managers.
- Maintenance and reliability engineers.
- Risk and asset integrity professionals.
- Operations and HSE managers.
- Regulatory and compliance officers.

Individual Benefits

Key competencies that will be developed include:

- Proficiency in RBI methodology and tools.
- Enhanced risk assessment and decision-making skills.
- Ability to develop optimized inspection plans.
- Knowledge of relevant international codes and standards.
- Improved cross-functional collaboration for asset management.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved safety and environmental performance.
- More efficient use of inspection and maintenance budgets.
- Reduced downtime and extended equipment life.
- Stronger regulatory compliance and reporting.
- Increased operational reliability and profitability.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Lectures and Expert Insights – Covering RBI principles, standards, and applications.
- Practical Exercises – Risk assessments and inspection prioritization.
- Case Studies – Real-world RBI program successes and challenges.
- Software Demonstrations – Overview of leading RBI tools.
- Interactive Discussions – Sharing experiences and solutions.

MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

Course Outline

Detailed 5-Day Course Outline Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to RBI

- Module 1: Fundamentals of Risk-Based Inspection
- Module 2: Regulatory Framework (API 580, API 581)
- Module 3: Data Requirements and Collection

Day 2: Risk Assessment Methodology

- Module 4: Probability of Failure (PoF) Analysis
- Module 5: Consequence of Failure (CoF) Analysis
- Module 6: Risk Matrix Development

Day 3: RBI Program Development

- Module 7: Inspection Planning and Prioritization
- Module 8: Software Tools for RBI
- Module 9: Mitigation Measures and Risk Reduction

Day 4: Implementation and Optimization

- Module 10: Inspection Execution and Data Management
- Module 11: Continuous Improvement in RBI Programs
- Module 12: Case Studies and Best Practices

Day 5: Certification and Action Planning

- Module 13: RBI Program Audit and Review
- Module 14: Final Workshop: Building an RBI Plan
- Module 15: Personal Action Plan and Certification

Certification

Participants will receive a Certificate of Completion: Risk-Based Inspection Management Assessment, demonstrating their expertise in applying RBI principles for asset integrity management

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**

Follow us: **Facebook** **Twitter** **YouTube** **LinkedIn** **Instagram**

© Material published by MAWA Events shown here is copyrighted. All rights reserved. Any unauthorized copying, distribution, use, dissemination, downloading, storing (in any medium), transmission, reproduction or reliance in whole or any part of this course outline is prohibited and will constitute an infringement of copyright.