

RISK BASED INSPECTION MANAGEMENT ASSESSMENT (RBI)

“Optimizing Inspection Programs Through Risk-Driven Decision Making”

Schedule

Date	Venue	Fees (Face-to-Face)
12 - 16 Jul 2026	Manama, Bahrain	USD 3,495 per delegate

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

Introduction

Risk Based Inspection (RBI) is a structured methodology that focuses inspection and maintenance resources on equipment with the highest risk, ensuring safety, reliability, and cost effectiveness. By understanding the likelihood and consequence of failure, organizations can prioritize inspection activities and improve asset integrity management.

This intensive 5-day training provides participants with a comprehensive understanding of RBI principles, assessment methodologies, and implementation strategies. The course combines technical knowledge with practical application to help participants design, assess, and manage effective RBI programs aligned with international best practices and asset integrity requirements.

Objectives

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

- Understand the fundamentals and objectives of RBI
- Apply risk assessment concepts to inspection planning
- Identify damage mechanisms and degradation modes
- Evaluate probability and consequence of failure
- Develop risk-based inspection plans and intervals
- Integrate RBI with maintenance and asset management systems
- Improve inspection effectiveness while reducing costs

Why Attend

- Learn how to prioritize inspections based on actual risk
- Enhance asset integrity and operational safety
- Optimize inspection intervals and resource utilization
- Reduce unnecessary inspections and associated costs
- Improve compliance with industry standards and best practices
- Strengthen decision-making in inspection management

Target Audience

This program is designed for:

- Inspection and integrity engineers
- Maintenance and reliability professionals
- Asset integrity and corrosion engineers
- Mechanical and process engineers
- Operations and technical supervisors
- Professionals involved in inspection planning and assessment

Individual Benefits

Key competencies that will be developed include:

- Strong understanding of RBI concepts and methodologies
- Ability to assess and manage inspection risks
- Improved technical and analytical skills
- Enhanced confidence in inspection decision-making
- Better understanding of damage mechanisms and failure risks

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved safety and asset integrity performance
- Optimized inspection programs and schedules
- Reduced inspection and maintenance costs
- Enhanced regulatory and standards compliance
- Improved risk visibility and asset management decisions

Instructional Methodology

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

- Strategy Briefings – RBI frameworks, standards, and methodologies
- Case Studies – Real-world RBI applications and lessons learned
- Workshops – Risk assessment, inspection planning, and prioritization
- Peer Exchange – Group discussions on inspection challenges and solutions
- Tools – RBI templates, risk matrices, and inspection planning tools

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 & Risk Concepts

- Overview of RBI principles and benefits
- Risk terminology and definitions
- Likelihood and consequence of failure

Day 2: Damage Mechanisms & Failure Modes

- Common damage mechanisms in pressure equipment
- Corrosion, erosion, fatigue, and cracking
- Data requirements for RBI assessments

Day 3: Risk Assessment Methodologies

- Qualitative, semi-quantitative, and quantitative RBI
- Risk ranking and prioritization
- Use of risk matrices

Day 4: Inspection Planning & RBI Implementation

- Developing risk-based inspection plans
- Inspection techniques and interval optimization
- Integration with maintenance and asset management systems

Day 5: RBI Program Management & Continuous Improvement

- Managing and sustaining RBI programs
- Performance measurement and review
- Continuous improvement and re-assessment

Certification

Participants will receive a Certificate of Completion in Risk Based Inspection Management Assessment (RBI), validating their knowledge and practical ability to assess, develop, and manage risk-based inspection programs that enhance safety, reliability, and asset integrity.

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