

ROOT CAUSE ANALYSIS (RCA) MASTERY - TRAINING AND FACILITATION FOR EFFECTIVE PROBLEM SOLVING

"Eliminating Recurring Problems Through Structured Analysis and Expert Facilitation"

Schedule

Date	Venue	Fees (Face-to-Face)
03 - 07 Aug 2026	London, UK	USD 3,495 per delegate
08 - 12 Nov 2026	Doha, Qatar	USD 3,495 per delegate

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

Introduction

Recurring failures, incidents, and inefficiencies are often symptoms of deeper systemic issues that remain unresolved due to ineffective problem-solving approaches. Root Cause Analysis (RCA) provides a structured and disciplined methodology to identify true underlying causes and prevent recurrence rather than merely addressing symptoms.

This intensive 5-day RCA Mastery program equips participants with advanced analytical tools, facilitation techniques, and practical skills to lead effective RCA investigations. The course emphasizes real-world application, cross-functional collaboration, and sustainable corrective actions to drive continuous improvement in maintenance, reliability, safety, and operational performance.

Objectives

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

- Understand the principles and importance of effective root cause analysis
- Apply structured RCA methodologies and problem-solving tools
- Facilitate RCA workshops and cross-functional investigations
- Identify human, technical, and organizational root causes
- Develop effective corrective and preventive actions
- Verify effectiveness and sustain improvements
- Build a strong RCA culture within the organization

Why Attend

- Eliminate recurring equipment failures and incidents
- Strengthen analytical and critical thinking skills
- Learn to facilitate RCA sessions with confidence
- Improve maintenance, reliability, and safety outcomes
- Enhance cross-functional collaboration
- Drive long-term operational excellence

Target Audience

This program is designed for:

- Maintenance and reliability engineers
- Operations and production professionals
- HSE and safety practitioners
- Quality and continuous improvement professionals
- Supervisors, team leaders, and managers
- Anyone responsible for investigating failures or incidents

Individual Benefits

Key competencies that will be developed include:

- Advanced problem-solving and analytical skills
- Ability to lead and facilitate RCA investigations
- Improved decision-making based on evidence
- Stronger communication and facilitation capabilities
- Increased confidence in handling complex problems

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduction in recurring failures and incidents
- Improved reliability, safety, and operational performance
- More effective corrective and preventive actions
- Stronger accountability and learning culture
- Sustainable continuous improvement processes

Instructional Methodology

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

- Strategy Briefings – RCA principles, methodologies, and frameworks
- Case Studies – Real-world failure and incident investigations
- Workshops – Hands-on RCA exercises and facilitated investigations
- Peer Exchange – Group discussions on challenges and best practices
- Tools – RCA templates, facilitation guides, and action tracking 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: Foundations of Root Cause Analysis

- Introduction to RCA and problem-solving principles
- Understanding symptoms vs. root causes
- Overview of RCA methodologies and selection criteria

Day 2: RCA Tools & Techniques

- Cause-and-effect analysis
- 5 Whys, Fishbone, and fault tree analysis
- Evidence gathering and data validation

Day 3: Human, Organizational & Systemic Causes

- Human factors and behavioral causes
- Organizational and process-related failures
- Barrier analysis and system weaknesses

Day 4: RCA Facilitation & Corrective Actions

- Facilitating effective RCA sessions
- Developing strong corrective and preventive actions
- Risk-based prioritization and implementation planning

Day 5: Verification, Sustainability & RCA Culture

- Measuring effectiveness of corrective actions
- Preventing recurrence and sustaining improvements
- Building an organizational RCA and learning culture

Certification

Participants will receive a Certificate of Completion in Root Cause Analysis (RCA) Mastery – Training and Facilitation, validating their advanced capability to conduct, lead, and facilitate effective RCA investigations that deliver sustainable problem resolution and performance improvement.

Why Choose MAWA Events

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TEL:

+601116373203

EMAIL:

info@mawaevents.net

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