MAWA EVENTS

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

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

QHSE - ROOT CAUSE ANALYSIS (RCA)

"Identify failures, solve problems, and prevent recurrence with structured RCA techniques."

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► **Available delivery methods:** In-House Training

Introduction

This comprehensive Root Cause Analysis (RCA) training course is designed to empower Quality, Health, Safety, and Environment (QHSE) professionals with the tools, strategies, and methodologies required to investigate incidents, identify underlying causes, and implement sustainable corrective actions. Participants will explore proven analytical frameworks (5 Whys, Fishbone Diagram, Fault Tree Analysis, etc.) through hands-on practice, real-world scenarios, and team-based exercises.

Objectives

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

- Understand the principles and purpose of root cause analysis in QHSE.
- Identify immediate, contributing, and root causes of incidents.
- Apply key RCA techniques such as 5 Whys, Ishikawa Diagrams, and FTA.
- Develop actionable corrective and preventive measures.
- Facilitate and document RCA investigations professionally.
- Improve organizational safety and quality performance through structured learning.

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Why Attend

- Reduce incident recurrence and near-misses.
- Build a proactive QHSE culture.
- Gain structured tools to enhance your investigation skills.
- Align RCA practices with ISO 9001, ISO 14001, ISO 45001, and HSE-MS systems.

Target Audience

- QHSE Managers and Officers
- Risk & Safety Engineers
- Line Supervisors and Team Leaders
- Compliance Auditors
- Process Improvement and Reliability Engineers
- Incident Investigators

Individual Benefits

- Develop confidence in leading incident reviews.
- Master RCA tools for operational and safety improvements.
- Enhance reporting and documentation skills for audits.
- Add value to your professional portfolio with practical skills.

Organizational Benefits

- Reduce downtime and cost from recurring issues.
- Improve compliance with regulatory and ISO standards.
- Strengthen safety culture and employee involvement.
- Drive data-driven decision-making and continuous improvement.

Instructional Methodology

- Interactive Lectures & Expert Presentations
- Group Discussions & Team Problem-Solving
- Real-World Case Studies & Simulations
- Hands-On Exercises with RCA Tools
- Individual and Group-Based Assessment

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Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Training Hours: 7:30 AM – 3:30 PM **Daily Format:** 3–4 Learning Modules per Day **Coffee Breaks:** 09:30 & 11:15 | **Lunch Buffet:** 01:00 – 02:00

Day 1: RCA Foundations in QHSE Context

- Module 1: Introduction to Root Cause Analysis in HSE & Quality (07:30 – 09:30)
- Definitions, relevance, and role in management systems
- Types of failures: latent, active, systemic
- Module 2: Regulatory and ISO Requirements (ISO 9001 / ISO 45001 / 14001) (09:45 – 11:15)
- Compliance integration and global best practices
- Module 3: Incident Classification and Event Mapping (11:30 – 01:00)
- Minor vs. major incidents, events, and near misses
- Module 4: Interactive Activity – Event Mapping for a Real-Life Incident (02:00 – 03:30)

Day 2: RCA Techniques and Tools – Part 1

- Module 1: The 5 Whys Technique – Theory and Practice (07:30 – 09:30)
- Framework and application rules
- Module 2: Ishikawa (Fishbone) Diagram Development (09:45 – 11:15)
- Cause and effect categorization
- Module 3: Fault Tree Analysis (FTA) (11:30 – 01:00)
- Top-down deductive approach to failure investigation
- Module 4: Workshop – Apply 5 Whys + Fishbone in Case Study (02:00 – 03:30)

Day 3: RCA Techniques and Tools – Part 2

- Module 1: Change Analysis & Barrier Analysis (07:30 – 09:30)
- Understanding what changed and why
- Module 2: Human Factors in Incident Investigation (09:45 – 11:15)
- Behavior, fatigue, and decision errors
- Module 3: Developing Corrective and Preventive Actions (CAPA) (11:30 – 01:00)
- SMART actions, prioritization, and effectiveness
- Module 4: Simulation – Barrier & Change Analysis Application (02:00 – 03:30)

Day 4: RCA Implementation and Team Facilitation

- Module 1: Facilitating RCA Investigations as a Lead (07:30 – 09:30)
- Team management, stakeholder alignment
- Module 2: Documentation and Reporting for Compliance (09:45 – 11:15)
- Investigation forms, RCA logs, and audit trail
- Module 3: Risk-Based Thinking and Hierarchy of Controls (11:30 – 01:00)
- Risk ranking, mitigation strategies
- Module 4: Group Activity – RCA Reporting and Feedback Loop (02:00 – 03:30)

Day 5: Final Case Study, Presentation & Certification

- Module 1: RCA Case Study Development in Teams (07:30 – 09:30)
- Real-world or simulated event from client site/industry
- Module 2: Team Presentations & Peer Review (09:45 – 11:15)
- Module 3: RCA Review Quiz + Q&A Session (11:30 – 01:00)
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Module 4: Wrap-Up, Feedback, and Certificate Distribution (02:00 – 03:30)

Certification

Participants will be awarded a Certificate of Completion in: Root Cause Analysis in QHSE Systems (Aligned with ISO 9001, ISO 14001, ISO 45001 Investigation Protocols)

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**

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