



MAESTRO
CONSULTANTS

FUNDAMENTALS OF ROOT CAUSE ANALYSIS FOR INVESTIGATIONS

COURSE OUTLINE 2026

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TRAINING TITLE

FUNDAMENTALS OF ROOT CAUSE ANALYSIS FOR INVESTIGATIONS

VENUE

DUBAI, UAE

DURATION

5 Days

DATES

12-16 January 2026

PRICE

\$5,250 per attendee including training material/handouts, morning/afternoon coffee breaks, and Lunch.

TRAINING INTRODUCTION

This 5-day course introduces participants to the essential concepts and methodologies of Root Cause Analysis (RCA) in the context of investigations. The course provides a structured approach to identifying the underlying causes of problems, incidents, or failures. Participants will learn how to apply RCA techniques effectively to uncover systemic issues, prevent recurrence, and improve operational performance. The course emphasizes the importance of thorough investigation processes and the application of RCA in diverse industries, such as manufacturing, oil and gas, and healthcare.

TRAINING OBJECTIVES

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

- Understand the principles and importance of Root Cause Analysis in investigations.
- Apply various RCA techniques to identify root causes of incidents or failures.
- Develop effective investigation processes to ensure comprehensive analysis.
- Create action plans and corrective measures based on RCA findings.
- Use RCA outcomes to improve safety, quality, and operational performance.

TRAINING AUDIENCE

- Investigators and safety officers
- Quality assurance and quality control personnel
- Operations and maintenance managers
- Engineers and technical staff involved in incident analysis
- HSE (Health, Safety, and Environmental) professionals

TRAINING OUTLINE

Day 1: Introduction to Root Cause Analysis (RCA)

- Overview and importance of RCA in investigations
- Key concepts: Symptoms vs. Causes
- Types of failures: Human, mechanical, organizational, etc.
- Common misconceptions in problem-solving
- RCA frameworks and methodologies

Day 2: RCA Techniques and Tools

- Fishbone diagram (Ishikawa)
- 5 Whys technique
- Failure Mode and Effects Analysis (FMEA)
- Fault Tree Analysis (FTA)
- Pareto analysis and its application in RCA

Day 3: Investigation Process and Data Collection

- Steps in an effective investigation process
- Data collection methods and sources
- Interviewing techniques and witness statements
- Evidence gathering and documentation
- Analyzing and categorizing data for RCA

Day 4: Identifying Root Causes and Developing Corrective Actions

- Identifying and distinguishing between root causes and contributing factors
- Tools for root cause identification and validation

- Developing corrective and preventive actions
- Implementing action plans and monitoring effectiveness
- Engaging stakeholders in corrective actions

Day 5: Reporting, Communication, and Continuous Improvement

- Writing clear, concise, and actionable RCA reports
- Communicating findings to different stakeholders
- Using RCA to drive continuous improvement
- Lessons learned and knowledge sharing
- Final review and best practices for ongoing RCA applications

TRAINING CERTIFICATE

MAESTRO CONSULTANTS Certificate of Completion for delegates who attend and complete the training course.

METHODOLOGY

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of “real life” issues in their organizations. The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.