

Effective Root Cause Analysis **Duration:** 1 Day

**Overview:** The "Effective Root Cause Analysis" course provides participants with essential tools and techniques for identifying and addressing the root causes of problems within an organization. This course emphasizes a structured approach to problem-solving and equips participants with the skills needed to perform thorough root cause analyses, implement effective corrective actions, and prevent recurrence of issues. Participants will learn various methodologies for root cause analysis, including practical application through case studies and real-world scenarios.

**Course Objectives (Expected Outcomes):** By the end of this course, participants will be able to:

- Understand the principles and importance of root cause analysis in problem-solving.
- Utilize different methodologies and tools for conducting root cause analysis.
- Identify the underlying causes of issues and prevent their recurrence.
- Develop and implement effective corrective actions based on root cause findings.
- Communicate root cause analysis results and recommendations effectively to stakeholders.

# **Course Content:**

- 1. Introduction to Root Cause Analysis:
  - o Definition and purpose of root cause analysis
  - o Importance of addressing root causes versus symptoms
  - $\circ$   $\;$  Overview of common problems and their impacts on the organization

## 2. Root Cause Analysis Methodologies:

- o The Five Whys: Techniques for drilling down into problems
- Fishbone Diagram (Ishikawa): Identifying and visualizing potential causes
- Failure Mode and Effects Analysis (FMEA): Systematic approach to identifying potential failure points
- Cause and Effect Matrix: Prioritizing causes based on their impact
- Pareto Analysis: Identifying the most significant factors contributing to problems

## 3. Data Collection and Analysis:

- o Gathering relevant data and information for analysis
- Techniques for data analysis and interpretation
- Identifying patterns and trends to determine root causes

# 4. Developing Corrective Actions:

- o Creating effective corrective action plans based on root cause findings
- o Implementing corrective actions and monitoring their effectiveness
- Preventing recurrence of issues through process improvements
- 5. Communicating Findings and Recommendations:
  - Preparing comprehensive reports on root cause analysis
  - o Presenting findings and recommendations to stakeholders
  - o Ensuring stakeholder engagement and support for corrective actions



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#### 6. Practical Exercises and Case Studies:

- Hands-on practice with root cause analysis scenarios
- Analyzing real-life case studies to apply methodologies
- o Role-playing to develop problem-solving and communication skills

Who Should Attend? This course is ideal for:

- Quality assurance and control professionals involved in problem-solving and process improvement.
- Managers and team leaders responsible for addressing issues and implementing corrective actions.
- Process improvement specialists seeking to enhance their root cause analysis skills.
- Anyone involved in identifying and solving operational or quality issues within an organization.

**Assessment:** Participants will be assessed through practical exercises, case studies, and a final examination. Upon successful completion, participants will receive a certificate of completion, demonstrating their proficiency in effective root cause analysis.

**Entry Requirements:** Participants should have a basic understanding of problem-solving principles and organizational processes. Prior experience in quality management or process improvement is beneficial but not mandatory.

#### Duration of the Course: 8 hours (1 day)

**Progression:** Upon successful completion of this course, participants may choose to advance to further training in:

- Advanced Problem-Solving Techniques
- Quality Management System Strategies
- Process Improvement and Optimization

## **Training Options:**

- Online: Live virtual sessions providing flexibility and interactive learning from any location.
- **Onsite:** Customized training at your facility, tailored to your organization's specific needs.
- **Off-site:** Training held at an external venue, offering an immersive learning environment.
- **In-Person:** Face-to-face sessions with experienced instructors, offering practical guidance and handson experience.





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