

# Root Cause Analysis Essentials

## Course Data Sheet



**Overview:** At our Root Cause Analysis (RCA) Seminar, we empower industrial clients with the knowledge and tools necessary to identify and address the underlying causes of problems and incidents in their operations. This comprehensive and interactive seminar is specifically designed to equip participants with essential skills that lead to better decision-making, improved safety, increased productivity, and reduced operational downtime.

**Why Attend:** Root cause analysis is a critical process in any industrial setting, as it enables organizations to address issues at their source rather than merely treating symptoms. By attending this seminar, industrial professionals can:

1. **Enhance Problem-Solving Skills:** Participants will learn proven RCA methodologies and techniques to delve deep into complex issues, enabling them to find effective solutions that prevent recurrence.
2. **Reduce Downtime and Costs:** Identifying and resolving root causes of problems leads to more efficient processes, reduced downtime, and cost savings.
3. **Improve Safety and Quality:** Identifying and mitigating underlying causes of incidents helps create safer work environments and ensures product or service quality.
4. **Foster Continuous Improvement:** RCA is an essential element of any continuous improvement program, enabling organizations to grow and adapt to evolving challenges.

**Key Learning Objectives:** Throughout the workshop, attendees will gain a comprehensive understanding of the RCA process and its application in real-world industrial scenarios. Key learning objectives include:

1. **Introduction to Root Cause Analysis:** Understand the fundamentals of RCA, its benefits, and its role in proactive problem-solving.
2. **Defining an Accurate Problem Statement:** Participants will learn proper techniques and strategies to ensure they have properly defined the problem in an accurate manner.
3. **Quantifying the Right Problems to be Analyzing:** Calculate the annual costs associated with chronic failures that are hidden in plain sight and relegated to the budget as a 'cost of doing business'. Chronic failures typically are under the radar of a trigger, but more costly overall.
4. **Data Collection and Analysis:** Learn effective techniques for gathering and analyzing data to identify contributing factors accurately.
5. **Assembling a Proper RCA Team:** It is critical to have the right people on an RCA team. We will discuss the roles of both the RCA facilitator and team members.
6. **RCA Methodologies:** Explore various RCA methodologies, such as 5 Whys, Fishbone Diagrams, Cause and Effect Diagrams, and more.
7. **Human and Organizational Performance:** Recognize the role of human factors and management system deficiencies in failures and how to address them in the RCA process.

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8. **Corrective Action Planning:** Develop robust action plans to address root causes effectively and prevent recurrence.
9. **Assessing the Quality of an RCA:** Many leaders don't know how to properly review and assess an RCA presented to them. An assessment 'report card' be discussed as a job aid to help improve RCA quality.
10. **RCA Case Studies:** Engage in real-world case studies to apply RCA techniques in industrial contexts.

**Workshop Format:** The Root Cause Analysis Workshop is designed to be interactive, engaging, and highly informative. Our experienced facilitators will lead a combination of presentations, group discussions, hands-on exercises, and case studies to ensure participants fully grasp the concepts and can apply them to their specific industrial settings. Attendees are encouraged to bring real-world failures to the workshop to optimize their participation.

**Who Should Attend:** This seminar is ideal for professionals across various industrial sectors, including manufacturing, pulp and paper, oil and gas, mining, transportation, energy, construction, and more.

Key individuals who will benefit from this program include engineers, supervisors, safety personnel, quality assurance professionals, maintenance & operations teams, craftsmen, and managers responsible for process improvement.