

# ADVANCED ROOT CAUSE ANALYSIS



## Introduction

Are your problem-solving efforts stuck in a cycle of temporary fixes?

The Advanced Root Cause Analysis (Adv RCA) training takes you beyond the basics – equipping you with advanced tools, structured processes, and proven methodologies to identify the real causes of problems and eliminate them for good.

Over 2 intensive days, you will master advanced problem-identification techniques, apply industry-proven analysis tools, and learn how to implement sustainable corrective and preventive actions (CAPA). Real-world case studies, group exercises, and RCA simulations will ensure you leave with the skills to lead high-impact investigations in your organization.

This course is ideal for professionals in quality, operations, engineering, safety, and continuous improvement roles who are ready to take their RCA capabilities to the next level.

## Objectives

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

1. Understand the principles, scope and application of Advanced RCA.
2. Accurately define and classify problems by level and type.
3. Apply systematic and structured RCA processes using advanced techniques.
4. Select the most suitable RCA tools based on problem complexity.
5. Integrate CAPA methodology for lasting, measurable results.
6. Prepare professional RCA reports with clear, actionable findings.
7. Facilitate effective RCA sessions with cross-functional teams.

## Duration

2 days | 9am – 5pm | 14 hours

## Who should attend

This course is ideal for managers, engineers, supervisors, quality professionals, safety officers, and anyone responsible for solving recurring problems or improving operational performance.

## Course Fees

Member: S\$723.76

Non-Member: S\$802.24

*All fees stated are inclusive of Registration Fee and 9% GST*

## Award of Certificate

Certificate of Completion will be issued to participants who have attended at least 75% of the course



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## Course Contents

1. Introduction and Overview – Understanding the role of Advanced RCA in organizational success.
2. Concept of RCA – Principles, categories of root causes, and real-world importance.
3. RCA Process – From detection to sustainable solution implementation.
4. Problem and Problem Solving – Defining and scoping the problem effectively.
5. Problem Identification (Level / Type of Problem) – Products / Services -> Process -> System -> Business.
6. Selection Techniques for Analyzing – Choosing the right RCA tools.
7. Applying RCA in Systematic Problem Solving – Linking RCA to continuous improvement and operational excellence.
8. Standard Operating Procedures for conducting RCA – roles, work-flow, and governance.
9. RCA Methodology (CAPA Examples) – Building solutions that prevent recurrence.
10. RCA Reporting Format – What stakeholders need to see for action and buy-in.
11. RCA Report (Examples / Case Studies) – Learning from real investigations.
12. RCA Team Exercises / Group Discussion / Case Studies – Hands-on practice in applying RCA tools.
13. Workshop Summary – Recap, lessons learned, and workplace action plan.



Please refer to this URL  
<https://www.sqi.org.sg/courses/>  
or QR Code for soft copy  
and updated training schedule

### Membership Application

Register membership online at  
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or contact us to get the membership  
application form.

Membership Categories:  
~ Organisation membership  
~ Individual membership

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