

ROOT CAUSE ANALYSIS METHODOLOGY & IMPLEMENTATION



Introduction

This Root Cause Analysis course is designed to equip the participants with the knowledge and skills necessary to facilitate effective problem analysis. This course covers the systematic problem identification and the use of logic, data and process analysis to understand the problem, followed by root cause analysis and the recommendation of corrective actions to resolve the problem. The pertinent process of the verification of the effectiveness of the corrective actions and its integration to the overall business of the organisation to prevent recurrence will be discussed and demonstrated with quiz and case studies.

Duration

2 days | 9am – 5pm | 14 hours

Who should attend

Executives, Managers and Supervisors for Development, Manufacturing and Service sectors. Quality and process engineers, technicians, corrective action coordinators or managers; supervisors, team leaders, and process operators and anyone who wants to improve their ability to solve recurring problems and to drive productivity with measurable outcomes.

Course Fees

Member: S\$502.90
Non-Member: S\$535.00
Registration Fee of S\$17.12 apply
SDF funding & SkillsFuture applicable
All fees stated are inclusive of 7% 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

Understand the Methodology and Implementation of Root Cause Analysis

DAY 1

1. Introduction
2. Defining the Problem from the Symptom observed in the workplace
3. Understanding the PDCA, Root Cause Analysis (RCA) process and it's seven facts
4. RCA Team Formation and the Team Dynamics
5. RCA Tools
 - 5 Whys and Beyond (Process Flow & etc)
 - Cause and Effect Chart creation
 - Incidents mapping development with barriers analysis
6. Data Collection and Analysis
 - Population versus sampling; options for sampling
 - Tools for opinions or less precise data
 - Tools for discrete and continuous data analysis
 - Tools for softer type data
7. Method of establishing the Critical Factors
8. Case Studies



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

Day 2

9. Method of establishing the Root Causes
10. Solution Options Analysis and selecting the Best Fit
 - Feasibility and Solution effect analysis
11. Planning and Preparing the Proposal
12. Methods of evaluating the effectiveness of Corrective and Preventive Actions
13. Common Traps
 - Biases that affect RCA
 - Organisational culture
 - Structures of organisation
14. Case Studies

Membership Application

Register membership online at
www.sqi.org.sg/membership-join/
or contact us to get the membership
application form.

Membership Categories:

- ~ Organisation membership
- ~ Individual membership

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