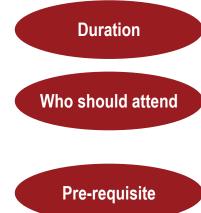
ADVANCE ROOT CAUSE ANALYSIS



Introduction

This Advance Root Cause Analysis course deploy analysis of variance and experimental design designed to equip the participants with the knowledge and skills necessary to facilitate effective problem analysis. This course covers the systematic problem identification that involved interactions of inputs with the use of logic, data analytic, and process analysis to understand the problem and establish the root cause(s). The pertinent process of the data analytic to derive 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 case studies.



2 days | 9am – 5pm | 14 hours

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

Participants preferably have completed the Root Cause Analysis Methodology and Implementation course.

Member: S\$577.80 Non-Member: S\$642.00 Registration Fee of S\$17.12 apply All fees stated are inclusive of 7% GST



Course Fees

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 Advance Root Cause Analysis

DAY 1

- 1. Introduction
- 2. The pitfall of using One-Input-at-a-Time for root cause analysis
- 3. What are interaction factors or inputs?
- 4. Advance Root Cause Roadmap
- 5. Deploying Analysis of Variance for Root Cause Analysis
 - · One-way analysis of variance
 - Two-way analysis of variance
- 6. Development of the data matrix for analysis
- Breaking down total variance to variation of interest and variation due to error
- Data analytic (statistics) to derive the root cause(s) and irreversible corrective actions.
- Case studies

Dav 2

- 7. Deploying Factorial Experimentation for Root Cause Analysis
 - · Experimentation with two factors
- How to establish the experimental error for analysis for a two-factors experiment?
- 8. Experimentation with four or more factors
 - Identification of problem
 - Brainstorming
 - Multi-voting
 - How to use to create an experimental matrix
 - Establishing the experiment error for analysis
 - · Data analytic to establish the root cause(s) result from interacting factors and main factors Irreversible corrective action
 - 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

SQI International is a subsidiary of Singapore Quality Institute (SQI). SQI operates as a non-profit professional institute that promotes and advances excellence in the field of quality in Singapore; and actively champions guality initiatives in the region and around the world through networking and collaborating with other international quality organisations.

SQI is a World Partner of the American Society for Quality (ASQ); and a Board Member of both the Asian Network for Quality (ANQ) and the World Alliance for Chinese Quality (WACQ).





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