



INDIAN STATISTICAL INSTITUTE
SQC & OR Unit
Bangalore



Announces

Online Training Program
on
Root Cause Analysis
(RCA-02)

12-13 & 19-20 December, 2026



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INTRODUCTION

- Root Cause Analysis (RCA) is increasingly important across industries as organisations seek to improve quality, enhance operational efficiency and mitigate risks.
- This training programme equips participants with practical tools and structured methodologies to identify and address the underlying causes of problems in manufacturing and service organisations, supporting continual improvement of their Quality Management Systems.
- Beginning with the fundamentals of RCA, the programme introduces techniques for systematic problem analysis, effective corrective action and prevention of recurrence, helping participants achieve sustained process improvements.

PROGRAM HIGHLIGHTS

- Build a strong foundation in RCA principles, frameworks and methodologies, with an understanding of their role in systematic problem solving.
- Learn to apply RCA tools and techniques to define problems, analyse potential causes, verify root causes and implement effective corrective actions to prevent recurrence.
- Strengthen practical skills through real-world case studies and hands-on software exercises focused on workplace problems.

VENUE AND TIMINGS:

- The Sessions shall be held in **Online Mode**

Date: 12-13 & 19-20, December 2026 (4 days)

Time: 10.00 hrs. to 17:30 hrs.,

ELIGIBILITY:

- Diploma/Degree holder in any discipline, students/scholars/faculties, and Industry Personnel are eligible to apply.
- Online examination will be conducted at the end of the program and successful candidates will be issued a certificate.

TOPICS COVERED:

The training sessions will cover the following key topics:

- Introduction to Root Cause Analysis (RCA): Fundamentals, principles and applications; distinguishing symptoms from root causes; and understanding correction, corrective action and preventive action.
- Structured Problem Solving through the 8D Approach: Overview of the eight disciplines, 8D methodology & framework, progressing from team formation and problem definition to corrective action, sustained improvement and closure.
- Planning, Problem Definition and Containment: Team formation, problem definition using 5W2H and Is-Is Not Analysis, process understanding through SIPOC and process mapping, systematic data collection, MSA and interim containment.
- Root Cause Identification and Verification: Identifying potential causes using brainstorming, Cause-and-Effect diagrams, 5 Whys, Gemba investigations and FMEA. Evaluating root causes through scatter plots, box plots, stacked bar charts, ANOVA, correlation and regression.
- Corrective Action Selection, Implementation and Validation: Prioritising solutions, conducting pilot implementation and verifying effectiveness; applying Poka-Yoke and using DOE, where needed, to investigate key factors, interactions and suitable process settings.
- Recurrence Prevention and Closure: Sustaining improvements through standardisation, control plans, follow-up audits and SPC, including common and special causes of variation. Completing 8D reports and closure checklists, documenting lessons learned and recognising team contributions.
- Practical Applications and Software Exercises: Case studies and hands-on software exercises.

PARTICIPATION FEE: INR 9,000/- per head (+ 18% Tax)

(Note: This comes to a Total of INR 10,620/- with tax)

NOTE:

1. **Total fees (+ Taxes) to be paid in full along with the application** (*Refer to Page 2 of the Registration Form for details*).
2. **For information on Registration**, refer to Page 2 of the Registration Form.
3. **Mode of Payment:** Through bank transfer **only**.

PROGRAM DIRECTOR:

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INDIAN STATISTICAL INSTITUTE

- The **Indian Statistical Institute** is a quasi-central organization under the Ministry of Statistics and Program Implementation.
- It is declared by an **Act of Parliament** as an **Institute of National Importance**.
- Over the years the Institute has grown as a multi-disciplinary organization.
- It functions as a **University** empowered to award degrees up to D.Sc.; as a **Corporation** in undertaking large scale projects; as a **Firm of Consultants** to industries to improve Quality, Reliability and Efficiency and as a **Meeting place** of Scientists, Economists and Literary figures from all parts of the world.
- For further details, please visit the website **www.isibang.ac.in/**
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Role & Function of SQC & OR DIVISION, ISI

- The **pioneer and leader** in blending **statistical theory with practice** and institutionalizing the **continuous improvement process** into a sustaining system.
- To strengthen the **national economy** through continual search for excellence in Quality.
- To disseminate the basic concepts and **techniques for Quality Improvement** by organizing Training programs, Workshops and In-house programs.
- To develop **highly skilled professionals** capable of self actualization.
- To help industries in their efforts to cope up with the growing challenge of global competition through Implementation of quality system based on **ISO-9000 series, ISO-14000, TS- 16949-2002 standards, Lean Six Sigma & World Class Manufacturing**.
- To continually develop and improve methodologies through **applied research** efforts to attain International Standards in services provided.
- To provide **solutions to the problems** pertaining to the entire gamut of complex Business Decision Processes with the aid of **Statistics and Operations Research**.