



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachibowli, Hyderabad – 500 032



Quality & Productivity Division

Continuing Professional Development Programme on Root Cause Analysis for Business Excellence

(Hybrid Mode)

26 - 28 October 2026



(An ISO 9001:2015, ISO 14001:2015, ISO/IEC 17025:2017, ISO 45001:2018, ISO 50001:2018 Certified,
AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

Introduction:

Root Cause Analysis (RCA) is a systematic approach used to identify the fundamental causes of problems, failures, or incidents within an organization. This training programme equips participants with the skills, tools, and techniques necessary to analyze complex problems, identify underlying causes, and implement effective solutions that prevent recurrence. Through a blend of theory, real-world case studies, and hands-on exercises, participants will gain practical experience in applying RCA methods to improve quality, enhance safety, reduce costs, and support continuous improvement initiatives.

By the end of the course, participants will have the knowledge to minimise mistakes and problems that impact core procedures and outcomes. Reducing delivery flaws will contribute to more efficient improvements in the quality of procedures, products, and services. The course will also equip participants with the ability to utilise available resources to gain insights into the root causes of critical issues, enabling the prompt identification of effective remedies and solutions.

Course Objectives: The objectives of this course is to

- Identify and define recurring operational issues by distinguishing symptoms from true root causes in industrial settings.
- Apply practical RCA tools such as 5 Whys, Fishbone Diagram, and Fault Tree Analysis to real-world equipment, process, and safety problems.
- Lead structured RCA investigations involving cross-functional teams to analyze failures and quality issues systematically.
- Develop and implement effective corrective actions that eliminate root causes, reduce downtime, and improve process reliability.
- Support continuous improvement initiatives by integrating RCA with Lean, TPM, Six Sigma, or regulatory compliance programs.

Course Coverage:

- Introduction to RCA concepts, benefits, and its role in improving quality, safety, and operational efficiency
- Defining problems accurately and distinguishing between symptoms and root causes
- Application of key RCA tools: 5 Whys, Fishbone Diagram, Fault Tree Analysis, and Pareto Analysis
- Step-by-step approach to conducting RCA investigations, including data collection and team facilitation
- Verification of root causes and validation of findings using evidence-based methods
- Development and implementation of effective corrective and preventive actions (CAPA)
- Documentation and reporting of RCA outcomes for audits, compliance, and continuous improvement
- Real-world case studies, hands-on exercises, and integration of RCA with Lean, Six Sigma, and TPM practices

METHODOLOGY

The program will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The faculty will act as provocateurs and resource persons and demonstrate application oriented studies in a professional manner.

TARGET PARTICIPANTS

Scientists, Managers, Electronic Engineers, Staff working in Manufacture, Assembly Quality, Quality Control and Testing are eligible to Participate in the Training Program. The Course is highly useful to DGQA, DGAQA, CQAE Officers, Technical Officers, QA / QC personnel, Contract & Procurement Managers / Engineers involved in Manufacture.

PROGRAMME VENUE, DATES & TIMINGS

VENUE: Engineering Staff College of India (ESCI) Campus, Beside CARE Hospital, Gachibowli, Hyderabad - 500 032. TELANGANA STATE, India.

DATES: 26 – 28 October 2025

TIMINGS: Registration will commence at 09.45 hrs, Program timings will be from 09.45 – 17.15 Hrs. with breaks in between for tea and lunch.

COURSE DIRECTOR

Dr. Katti Bharath
Faculty & Head I/C
Quality & Productivity Division
Engineering Staff College of India
Gachi Bowli, Hyderabad – 500 032
M.No.7097282619
Direct Phones: 040 – 66304105, 4133
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FACULTY

Apart from core internal faculty and experts from industry will share the sessions.

COURSE FEE

Rs. 18,000 /- + 18% GST per participant. Fee includes, Soft copy of the course material, course kit, twin-sharing/single AC accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks during the actual days of training Programme **(Offline mode)**.

Rs. 10,500/- + 18% GST per participant. Fee includes Experts Online Support and Reading Material Softcopy **(Online mode)**

DISCOUNTS

Non-Residential Fee: 10% discount on course fee is allowed for non-residential participants. (Participants who are attending offline only)

PAN Card No AAATT3439Q; GSTIN: 36AAATT3439Q1ZV

MODE OF PAYMENT

Programme fee is to be paid in favour of **“IE(I)-Engineering Staff College of India”** in the form of demand draft payable at Hyderabad.

Alternatively, the payment may be made by Electronic Fund Transfer (EFT) to ESCI – SB A/c No. **912010049234564** with Axis Bank Ltd., Gachibowli branch, Old Mumbai Highway, Cyberhills Colony, P Janardhan Reddy Nagar, Gachibowli, Hyderabad – 500032, T.S., by NEFT/ RTGS/ IFSC Code No. UTIB0000733 – MICR No.500211020.

While using EFT method of payment, please ensure to communicate us your company name, **our invoice reference and program title.**

REGISTRATION

To register, manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to: Email: qp@escihyd.org

CERTIFICATE

On successful completion of the course and continuous assessment during the course, the participants will be awarded a certificate by ESCI.

GENERAL INFORMATION

- ESCI encourages participants to present case studies from their respective organizations.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in at 12:00 hrs.) and one day after conclusion (Check-out at 12:00 hrs.) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well-developed Information Centre and Internet facilities are available to the participants.