Manufacturing Technology Training
An IMTMA initiative

8D Problem Solving Methodology and 7QC Tools
Date : 22 to 23 June, 2026
Venue : IMTMA Technology Centre, Bengaluru

INTRODUCTION

Critical, complex problems arising every day from cross-functional disciplines in the work environment can wreak havoc and affect your bottom-line big time if the root cause is not identified quickly and correctly. The problems usually persist and recur periodically failing any preventive actions or due to limitations in problem solving approach of the untrained individual. We often see departments passing the buck across the hallway to get the monkey off their back.

TOPS-8D (Team Oriented Problem Solving methodology) is a highly structured, problem solving tool perpetuated by FORD and is used by effective managers across the world in problems pertaining to Product/Process Quality as well as non-technical - Management / Marketing zones. It comprises 8 steps and follows the PDCA logic.

The goal of this method is to find the root cause of the problem using statistical tools, develop containment actions to protect the customer and take preventive actions to prevent recurrence of the problem.

Keeping this in view, IMTMA is organizing an offline training on **"8D Problem Solving Methodology and 7QC Tools".**

FOCUS AREAS

- PDCA / 8D Approach for problem solving
- Basic 7 QC Tools
  - Check sheet
  - Stratification
  - Brainstorming and Pareto chart
  - Cause and Effect diagram
  - Graphs and control charts
  - Histograms
  - Scatter diagrams
- TOPS-8D approach for problem solving
- Problem Description
- Intermediate / Immediate Actions
- Various methods for data collection for potential causes
- Root Cause Identification Process (Technical root cause and System root cause)
- Preventive action selection
- Financial Matrix for CAPA (Corrective and preventive action)
- Interlinking CI (continuous improvement) with CAPA
- Interlinking 8D Problem Solving with QS (Quality System) Reviews & FMEA
- Setting and meeting KPI targets for Efficiency and Effectiveness
- Case studies from Industry for effective problem solving by using QC tools

KEY TAKE AWAYS

After undergoing the programme, the participants will be able to

- Learn 8D approach of problem solving i.e., finding the root cause, developing proper actions to eliminate root cause and implementing permanent corrective actions
- The 8D methodology also helps to explore the control systems that allowed the problem to escape. The Escape Point is studies for the purpose of improving the ability of the Control System to detect the failure or cause when and if it should occur again (Detection)
- Finally, the Prevention loop explores the systems that permitted the condition that allowed the failure and cause mechanism to exist in the first place (Prevention)
- Ensure the problem is not repeated

PARTICIPATION FEE

Rs. 4999/-	Rs. 2500/-	Rs. 999/-	USD 200/-
+18% GST	+18% GST	+18% GST	
IMTMA Members/ Micro Companies/ Individuals/ IMTMA Non Members/ Others	**Professors**	**Student**	**Overseas Participants**

Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

PARTICIPANT PROFILE

This course is ideal for those who are responsible for product development, operations management, quality control, and engineering including department managers, supervisors, quality representatives and engineers.

FACULTY

This programme will be conducted by, IMTMA Subject Matter Expert.

He is an engineer by profession, was associated with Bosch for over 27 years, as part of the quality department responsible for introduction, sustenance of Quality standards and quality tools in all Bosch plants across India. Prior to that, he was responsible for engineering and manufacturing gear pumps, process planning of elements, machine planning & procurement, New project coordination and Project management for electric power tools. In his last assignment at Bosch, he was the Quality head of the Automotive Electronics Plant at Bangalore.

He has earlier worked with Tata Motors for over 6 years and was responsible for Process planning of transmission components & assembly and Process planning of dies, jigs and fixtures.

He currently provides training on various quality aspects such as VDA 6.3, Systems audits as per IATF 16949, 8D problem solving, FMEA, SPC, MSA, Basic quality tools, Tooling management, APQP, PPAP and Project management.

For Registration Contact

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REGISTRATION : Prior registration for participation is necessary. Number of participants is limited and will be accepted on 'First Come First Serve' basis. A Certificate of participation will be issued to participants.
Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.