

**Last date for registration 29 October 2025**

## INTRODUCTION

In today's competitive market environment, the industry has realized the fact that servicing unreliable products is a very costly proposition. To a large extent, reliability is built into the product during the design and development phase. Failure Mode & Effects Analysis (FMEA) is an essential ingredient of reliability engineering and is a very powerful and effective technique used for improvement in design, assembly, materials engineering, servicing etc., in a diverse range of manufacturing activities. FMEA can be effectively applied in case of new developments, new technologies and components/assemblies or products which have inherent problems showing up in practice.

'Failure Mode & Effects Analysis' (FMEA) is an "error prevention" oriented and proactive methodology that tries to pre-empt the occurrence of errors; reduce their significance ( even if they were bound to occur ) and in unavoidable circumstances, to increase the chance of error detection, so that the process could then be suitably controlled. FMEA is an aid for continuous improvement which fits into a PDCA (Plan-Do-Check-Act) pattern of activity. Whenever changes in product or processes or vendor / supplier are envisaged or effected, FMEA is redone to evaluate their effects.

## FOCUS AREAS

- Introduction to FMEA Concepts as per new AIAG & VDA Hand book for FMEA
- Benefits of FMEA
- Purpose of revision of FMEA manual
- Brief on revision details
- New Frame work
- When to adopt new methodology? Transition Strategy
- Seven step methodology for Process Failure Mode and Effect Analysis
- Planning & Preparation
- Structure Analysis
- Function Analysis
- Failure Analysis
- Risk Analysis
- Optimization
- Result Documentation
- PFMEA & DFMEA Linkage to Control Plan
- Cause & Effects Analysis
- Design FMEA – Example & Case Study and changes as per AIAG &VDA handbook
- Process FMEA – Example & Case Study and changes as per AIAG &VDA handbook

## KEY TAKE AWAYS

- Overview of the major changes, improvements and benefits of the AIAG & VDA Handbook for FMEA
- Concept of FMEA as a risk management and preventive quality assurance technique
- How to carry out Design FMEA and Process FMEA in industries
- How to carry out Process FMEA in industries
- Linkage between PFMEA and DFMEA
- New Format for PFMEA and DFMEA
- "FMEA : A live document. How to use FMEA everyday for problem solving."

## PARTICIPATION FEE

**Rs. 10450/-**  
+18% GST  
**IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others**

**USD 415/-**  
**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 programme will benefit practicing engineers and senior technical personnel involved in the functions of Design and Development, Process Planning, Product Engineering, Application engineering, Quality Assurance, R&D, Manufacturing, Servicing etc., and other related areas from Machine Tool, Automobile & auto ancillaries, Tool rooms, Defence and Railway establishments, General Engineering and other Capital goods manufacturing industries. In order that the participation is effective and beneficial, it is recommended that participating companies depute a multi-disciplinary team of 2 or 3 people from the above functions. Participants should have knowledge of related products and processes.

## FACULTY

The program shall be delivered by **Mr. Naveen GS**.

**Mr. Naveen GS** is an Instrumentation Engineer, and an MBA in Operations Management with 26+ years' of work experience in Automotive Industries, Vocational Skills, Industrial Engineering and Certification services. Expert in managing Profitability, Delivery, Operations, Quality Management Systems, Product Quality, Supplier Quality.

Apart from having a strong background in Delivery and Quality Management Systems, Naveen also comes with an extensive experience in areas like Quality Assurance in Strategic Sourcing and Supply Chain Management, Information Systems, Product development and Operations.

Naveen has extensive work and travel experience across India. He has also worked out of Sweden and Finland and has undertaken work related travel to United Kingdom, Malaysia and Srilanka. Naveen was the Head of Sales, Delivery, Quality, Operations and Training in multiple organizations including MNCs and reputed Indian companies. He has worked as "Management Representative" in multiple organisations and has the experience of putting in place robust management systems for meeting the international standard requirements and the continuously demanding industry needs. Having been responsible for P&L for many years, he is able to explain financial linkages to operational challenges. Having implemented and leveraged various systems across industries, Naveen is an expert in APQP, PPAP, ISO 9001, ISO 14001, AS 9100, TS 16949, Warranty Complaints, Audits, Skills Assessment, CMMI Level 5, GDPR, DPO, Six Sigma and Various Quality tools.

Currently Naveen GS is working as Director Training in Indian Machine Tools Manufacturing Association. Before his association with IMTMA, Naveen was associated with organizations such as VDO India, Mahindra & Mahindra (Tractor Division), Dynamatic Technologies, Wipro Infrastructure Engineering (A division of WIPRO Ltd.), Manipal – City & Guilds and TUV Nord India.

### 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.