Manufacturing Technology Training
An IMTMA initiative

Professional masterclass in Paint & Powder Coating Technology
Date : 2 to 3 November, 2026
Venue : IMTMA Technology Centre, Bengaluru

INTRODUCTION

In today's competitive manufacturing landscape, coating quality is crucial for product reliability, aesthetics, and corrosion resistance. Despite advancements in machining and fabrication, Indian manufacturing faces challenges in coating processes due to recurring defects, process instability, inadequate surface preparation, and insufficient root cause analysis.

This intensive program focuses on understanding paint and powder coating defects, their causes, prevention methods, and process improvement. It combines technical fundamentals, real industry case studies, and best practices from top manufacturing organisations. The training emphasises operational excellence through process discipline and continuous improvement. Participants will gain hands-on experience in identifying coating failures, improving transfer efficiency, reducing rework, and establishing quality systems in paint-shop operations.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organising a training on **Professional masterclass in Paint & Powder Coating Technology.**

FOCUS AREAS

- Fundamentals of Industrial Paints & Powder Coatings
- Paint Film Defects – Identification, Root Causes & Remedies
- Powder Coating Defects and Failure Analysis
- Surface Preparation & Pretreatment Best Practices
- Importance of Degreasing, Phosphating & Surface Conditioning
- Paint Mixing, Viscosity Control & Process Parameters
- Spray Gun Selection, Spray Patterns & Transfer Efficiency
- Electrostatic Powder Coating Fundamentals
- Curing Oven Parameters & Temperature Profiling
- Paint Booth Management & Contamination Control
- Quality Assurance & Inspection Techniques
- 5S Practices in Paint Shops for Safety & Quality
- Root Cause Analysis using Fishbone & Why-Why Analysis
- Storage, Shelf Life & Safety Practices
- Handling of Hazardous Chemicals & Waste Disposal
- Understanding Technical Specifications & Customer Standards
- Real Industrial Case Studies and Group Discussions

KEY TAKE AWAYS

- Develop strong analytical skills to identify recurring paint and powder coating defects
- Understand the complete process flow and standard operating procedures involved in coating applications
- Improve coating quality consistency through process control and scientific troubleshooting
- Reduce rejection, rework, paint wastage and production losses
- Enhance productivity and transfer efficiency in paint-shop operations
- Gain practical exposure through case studies and industry examples
- Build a systematic approach towards continuous improvement in coating operations

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 program is recommended for Paint Shop Engineers, Production Engineers, Quality Engineers, Maintenance Engineers, Process Planning Engineers, Supervisors, Application Specialists, and Technical Personnel involved in painting and powder coating operations.

The program will benefit professionals from Automobile & Auto Ancillaries, Aerospace, Defense, Railways, General Engineering, Capital Goods, Consumer Durables, Fabrication Industries, and all organisations involved in surface finishing and coating applications.

The sessions are designed to be highly interactive with practical discussions, problem-solving exercises, case studies, and participant engagement.

FACULTY

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

He is a seasoned manufacturing excellence consultant and technical trainer with extensive industry experience in operational excellence, process improvement, lean manufacturing, quality systems, and manufacturing capability development.

He is a graduate Engineer with a master's in manufacturing management. Worked as business head for almost 15 years in the surface protection industry – built processes, machinery, and manpower skill base. He has also successfully worked with organisations across engineering, automotive, textile, and manufacturing sectors in areas such as Lean Implementation, 5S, TPM, Productivity Improvement, Quality Management, Root Cause Analysis, Workforce Capability Building, and Manufacturing Transformation. The sessions are delivered with a strong practical orientation, combining shop-floor realities with world-class manufacturing practices to ensure maximum value creation for participants.

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.