



IMTMA Technology Centre
An Initiative of Indian Machine Tool Manufacturers' Association

IMTMA TECHNOLOGY CENTRE TRAINING CALENDAR 2020 21

Enhancing Manufacturing Industries' Competitiveness

200⁺ Focused Technical Training Programmes on

Design
Productivity
Quality
Automation



Maintenance
Metal Forming
Emerging Technologies
CNC Machining

at Bangalore, Pune & Gurgaon

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Topic Name / Type of Series	Jan'20	Feb'20	Mar'20	Apr'20	May'20	Jun'20	Jul'20	Aug'20	Sep'20	Oct'20	Nov'20	Dec'20	Jan'21	Feb'21	Mar'21
AUTOMATION SERIES															
Industrial drive technology for Motion Control				BLR								PUNE			
Smart Automation-A key driver for Smart Manufacturing				GGN				PUNE			BLR				
Manufacturing Automation using Robots		PUNE					BLR							PUNE	
Hands on training in PLC Programming and Networking					BLR					BLR					
Industrial Monitoring Solutions - HMI and SCDA					PUNE	BLR									
Hands on training in Robot Programming			BLR							BLR					BLR
Foundation course in Industrial Automation & Robotics	BLR						BLR		BLR		BLR		BLR		
DESIGN SERIES															
ASME Geometric Dimensioning & Tolerancing for GDTP Technologist Level certification						BLR									
ASME Geometric Dimensioning & Tolerancing for GDTP Senior Level certification							BLR								
Design For Manufacturing and Assembly (DFMA)				BLR		GGN				PUNE					
Design of Gauges - Principles, Design of plain, taper and thread gauges, Functional gauges as per ASME 14.43							BLR				PUNE				
Design of Workholding & Fixturing	PUNE				PUNE					GGN		BLR	PUNE		
Gear Design - A Practical approach						PUNE					BLR				
Advanced Concepts of GD&T (Geometric Dimensioning & Tolerancing)					PUNE				BLR			PUNE			GGN
Geometric Dimensioning & Tolerancing in Design through Manufacturing		GGN	BLR	PUNE				BLR		GGN					BLR
Geometric Dimensioning & Tolerancing (GD&T) per ISO Standards					PUNE				PUNE			BLR			
Reliability engineering-Concept, Calculations, Techniques and Tools		BLR							PUNE					BLR	
Finite Element Methods(FEM) for structural design-How and Why?		PUNE								BLR				PUNE	
Tolerance Stack-Up Analysis					BLR	GGN				PUNE					
DESIGN INSTITUTE PROGRAMMES															
Machine Tool Design - Mechanical				BLR		PUNE		BLR			PUNE			BLR	
Machine Tool Design - SPM Metal Cutting		BLR				BLR			PUNE			BLR			
Control System Design for Machineries										BLR				BLR	
Product Optimization through Finite Element Method		BLR			BLR					BLR					
Design for Additive Manufacturing							BLR							PUNE	
Design of Gear Box		PUNE		BLR				PUNE				GGN			
Design of Fixture Machining		PUNE			BLR			PUNE				GGN			
Design of BIW Fixture					BLR				GGN				PUNE		
Design of Hydraulics for Machineries		GGN					PUNE			GGN			BLR		
Design of CNC Axis				GGN				PUNE				BLR			
Basics of Mechanical Design		GGN		BLR				GGN				PUNE			
Advance Mechanical Design						GGN				BLR			PUNE		

Enhance Your Technical Competencies

■ Bangalore
 ■ Pune
 ■ Gurgaon

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METAL FORMING SERIES															
Assembly, Welding & Inspection Fixtures - Design and Manufacturing 2 days								PUNE							
IDR Approach to troubleshoot components defects in a Press Shop - A Journey to Six Sigma 2 days			PUNE		BLR			GGN						PUNE	
Sheet Metal Dies - Tryout and Proving 3 days				PUNE								PUNE			
Sheet Metal Forming - Primer Course 2 days	GGN										PUNE		GGN		
Sheet Metal Forming - Advanced Course including Hydroforming, TWB and Hot Forming 2 days					PUNE			GGN				BLR			
PRODUCTIVITY SERIES															
Challenges and solutions in Thread cutting 1 day								BLR				PUNE			
Machining Aerospace Materials-Challenges and solutions 2 days					BLR							PUNE			
Hands on training in Programming & Operation of CNC Turning Centres 5 days				PUNE							PUNE				
Hands on training in programming & Operation of CNC Machining Centres 5 days		PUNE		PUNE		BLR			PUNE			BLR		PUNE	
Advanced Programming for CNC Machining Centres 4 days				BLR		PUNE		PUNE		BLR			PUNE		
Cost & Cycle time reduction in CNC Machining 2 days					PUNE		GGN		BLR					BLR	
Gear Manufacturing processes 3 days		BLR					GGN			PUNE				PUNE	
Selection & Application of Tooling for CNC Machining Applications 2 days							PUNE				BLR				
How to Improve OEE and achieve manufacturing excellence 2 days						BLR							PUNE		GGN
Customer Focused Daily Work Management - DWM 1 day	PUNE														
Practical approach towards process planning for machined parts-for Symmetric (Turning) parts 2 days									PUNE						
Practical approach towards process planning for machined parts-for Prismatic (Machining Centre) Components. 2 days						PUNE									
Finishing School in Production Engineering 24 days	BLR				BLR PUNE		BLR PUNE	BLR PUNE	BLR PUNE		BLR	PUNE	BLR	PUNE	
TECHNOLOGY SERIES															
Design for Additive Manufacturing (DfAM) 2 days					GGN		BLR								
Painting and Coating Technology - What, Why and How? 2 days	BLR			GGN			PUNE				BLR				
Advanced Heat Treatment Processes in Metalworking 2 days					BLR			PUNE							
Heat treatment-Metallurgy and processes 2 days		BLR					PUNE		GGN					BLR	
Welding Technology -Processes,DFM,Quality and Cost considerations 2 days		GGN		BLR										GGN	
Induction hardening and other surface heat treatment processes 2 days	PUNE								BLR				PUNE		
Honing -Tools, Process and Application 1 day										BLR					
Electric Mobility: Technology, Process and Business Opportunity 2 days						BLR						PUNE			
Metallurgy for non metallurgists 2 days		PUNE				BLR									
Metal casting Technology-Processes, DFM, Quality and Cost considerations 2 days								BLR				PUNE			
Forging Technology-Processes, DFM, Quality and Cost considerations 2 days		BLR							PUNE					BLR	
Practical Approach towards Implementing Industry 4.0 in manufacturing 2 days			BLR				GGN					BLR			
Artificial Intelligence and Machine Learning for Manufacturing Industries 1 day										BLR					

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MAINTENANCE SERIES															
Noise, Vibration and Harshness (NVH) considerations in Design and Predictive Maintenance		BLR												BLR	
Effective Maintenance towards zero down time- Electrical aspects of CNC Machines		PUNE					BLR							PUNE	
Maintenance and trouble shooting of Hydraulics & Pneumatics systems					BLR							BLR			
Selection, Assembly and Trouble shooting of L M Guideways and Ball Screws				BLR						PUNE					
Spindle Maintenance for Metal Cutting & Industrial Machinery	PUNE				GGN			BLR					PUNE		
QUALITY SERIES															
Advanced Product Quality Planning (APQP) and Implementation of the Production Part Approval Process (PPAP)			GGN			PUNE			BLR				GGN		
Finishing of Edges-Burr management in machining		BLR					PUNE					GGN		BLR	
CE Marking for export markets: Gate Way to Global Market	BLR					PUNE							BLR		
Value Stream Mapping (VSM) and Value Stream Design (VSD)	BLR												BLR		
Cleaning of machined components				PUNE					BLR		GGN				
Cost of Quality & How to reduce Cost Of Poor Quality (COPQ)		BLR					PUNE		GGN					BLR	
Trouble shooting of Casting defects	BLR						PUNE							BLR	
Defects and Analysis of painting and coating applications	GGN				BLR								PUNE	GGN	
How to Become an Effective FMEA Practitioner (Latest Edition -AIAG & VDA)				PUNE			BLR		PUNE			GGN			
Gear Metrology and Measuring Methods				BLR							GGN	PUNE			
Hands-on training in Dimensional Metrology						PUNE									
Best Practices for Cost reduction in Manufacturing					PUNE					BLR					
How to achieve 'right first time, every time' - Tools and Techniques								PUNE			BLR				
Measurement Systems Analysis (MSA)	PUNE						BLR								
Hands-on training in Operation of Co-ordinate Measuring Machines (CMMs)					PUNE	BLR				PUNE		BLR			
Defects and Analysis of welding applications		GGN				PUNE							BLR	GGN	
SPECIALISED SERIES															
Energy Cost Reduction in Manufacturing - A Need of the Hour								PUNE					BLR		
Electric Motors: Application, Selection, Sizing and Optimization		PUNE						BLR						PUNE	
Finance for Sales and Marketing professionals					BLR										
Interviewing skills-Key to build Brand and attract Talent				BLR						PUNE					
Advanced purchase and procurement practices to enhance competitiveness											BLR				
Effective Sales and Marketing of Machine Tools & Accessories							PUNE			BLR					
Triz -Innovation Workshop									BLR						
Certified Machine Tool Sales & Marketing Professional					BLR						BLR				

In House Training by IMTMA

Do you know that many of these training programmes can be delivered at your place !

Our in-house training programmes are designed to bring our resources and expertise to your location. With rich experience in content development and dissemination, IMTMA is well qualified to train your staff.

- Gain competitive edge
- Customized to meet your company's needs
- Learn directly from industry experts
- Save time and money by avoiding the loss of man-hours and travel expenses
- Training organized for many industries including Alstom group, Bajaj Auto, Bharat Forge, Bombardier, Ceratizit India, Dover India, Honey well, Mahindra group, Maruti Suzuki, Meritor, Mercedes Benz, Molex India, Quest Global, Rolls Royce India, Royal Enfield, Sundaram Clayton, TVS Motors, Tata Advanced Materials, Titan Watches, Volvo, Yuken India, etc.,

e-Learning

e-Learning Program is another initiative of IMTMA to disseminate knowledge and skill training on all aspects of manufacturing technology.

The e-Learning program brings knowledge to your desk through packaged training courses on various topics which you can access at any time suiting your schedule. These are prepared by subject matter experts with specialized knowledge and vast experience in that domain.

e-Learning Modules from IMTMA

1. Geometric Dimensioning and Tolerancing (GD&T)
 2. Failure Mode and Effects Analysis (FMEA)
 3. Overall Equipment Effectiveness (OEE)
 4. Selection, Assembly and Trouble shooting of Linear Motion Guideways
 5. Selection, Assembly and Trouble shooting of Ball Screws
 6. Fundamentals of Painting and Coating applications
- and many more to come.....

Training by IMTMA, What Industries say?

I extend my thanks to IMTMA for arranging training programme on Induction Hardening. Our members from all departments such as QC, Maintenance, Manufacturing and PE attended the programme. All of them found the programme to be very knowledgeable and useful and were able to understand a critical process such as hardening.

- S.V. Pramod, General Manager, PED
Toyota Industries Engine India Pvt. Ltd.

The training imparted at IMTMA Technology Centre excellently bridges the knowledge gap between academics and industry and covers all the contemporary needs of shopfloor. I am pleased to associate with IMTMA for the training programmes.

- R. Rajagopalan, Chief Manufacturing Officer, Watch Division, Titan Company Ltd.



1,18,200+
Mandays



200+
Training
Programmes



4,500+
Companies Trained
Pan India



30,100+
Professionals
Trained

Training @ IMTMA - UNIQUE FEATURES

- ▶ Programmes are conducted by Subject Matter Experts from Industry who have rich expertise of about 25 years of Industry experience in the relevant field.
- ▶ The theory sessions are supplemented with practical sessions including Hands-on practice, live demonstrations, group exercises / presentations and/or industry visits.
- ▶ Discussion of Industry Case studies / practical examples.
- ▶ Participants go back with clear take aways and implement the key learnings in their own projects.
- ▶ Participants can discuss specific queries / technical challenges with the expert faculty

NOTE :

Programmes are liable to change in case of any unforeseen reasons.
For exact dates, participation and fee details,

Please visit : www.imtmatraining.com

IMTMA TECHNOLOGY CENTRES @ BANGALORE / PUNE - Partnered by



About IMTMA :

Constituted in 1946, Indian Machine Tool Manufacturers' Association (IMTMA) is the single point of contact for the machine tool industry in India. IMTMA is a 'Not for Profit' organization and plays a key role in the growth and development of the Indian Machine Tool Industry and has a membership of about 470 companies from both the public and private sectors, manufacturing a wide range of metal-cutting and metal-forming machines, accessories, cutting tools and other allied equipment. IMTMA organises the prestigious IMTEX and Tooltech exhibition, where both Indian and overseas manufacturers showcase their metalworking machines, equipment and tools.

The Association has over the years deeply committed itself to focus on issues of productivity, quality, technology, new product development, design, customer satisfaction, etc. for enhancing competitiveness of the industry in both domestic and overseas markets. IMTMA is proactive in taking new initiatives to promote advancement of metalworking industry in India.

IMTMA has established state-of-art training facilities at its Technology Centres located at BIEC, Bangalore and Pune.



INDIAN MACHINE TOOL MANUFACTURERS' ASSOCIATION

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