
Manufacturing Technology Training
An IMTMA initiative
ANNUAL
TRAINING CALENDAR
Online
2024-25
Training Registration Link: Click Here

Sl No	April 2024	May 2024	June 2024
1	"ASME Certified Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing - Practioner Level"	Enhancing productivity in Grinding operations	Machining Aerospace Materials - Challenges and Solutions
2	Lean Daily Work Management (DWM) System	ASME Certified Advanced Concepts of GD&T - Professional Level	Effective new product development (NPD) process
3	How to achieve breakthrough results through Six sigma methodology	Best Practices for Manufacturing Cost Reduction	Tolerance Stack-Up Analysis
4	Heat Treatment - Metallurgy and Processes	Principles and Tools of Toyota Production System	Understanding TPM and Roadmap for Implementation of TPM
5	Antifriction Bearings - Selection, Applications and Condition Monitoring Aspects	Induction Hardening and Other Surface Heat Treatment Processes	Value engineering and value analysis (VA/VE)
6	"Fundamentals of Advanced Product Quality Planning (APQP) and Implementation of the Production Part Approval Process (PPAP)"	Implementing SPC, a Game Changer for Cost Reduction	Advanced Heat Treatment Processes in Metal Working
7	Implementing Industry 4.0 in Indian Context	How to reduce Cost of Poor Quality (COPQ)	How to become an effective FMEA Practitioner as per combined AIAG & VDA Version
8	CE Marking - Compliance requirements for Export Markets - Europe, North America & GCC countries	Metal Casting Technology - Processes, DFM, Quality and Cost Considerations	Primer Course on Sheet Metal Forming Technology
9	LM Guideways and Ballscrews - Types, Applications, Selection, Assembly and Trouble shooting	8D Problem Solving Methodology and 7 QC Tools	Cold Forging Technology - Process, DFM and Quality Considerations
10	How to bring in energy efficiency at Plant level?	Scientific Injection Molding - Principles, Tools and Techniques	How to Improve OEE and Achieve Manufacturing Excellence
11	Good Earthing Practices	A3 Problem solving methodology – As Per Toyota Production System	Operational excellence through QCD improvement
12	Engineering Materials and their selection - Key to Successful Design	Cleaning of Machined Parts - Need, Process, Do's and Don'ts	Measurement System Analysis (MSA)
13	Design and Processing Techniques for Plastic Parts	Design and Processing Techniques for Sheet Metal Parts	Metallurgy for Non-Metallurgists
14	Design for welding - Scientific approach for strength and cost optimization	Defects Analysis and Troubleshooting of Moulded Parts	Certified specialist in Root cause analysis
15	Design For Manufacturing & Assembly (DFMA)	TRIZ: Shortcut to Innovative Solutions	Light-Weighting of Automobiles
16		Kizen Methodology and POKA-YOKE	Best Practices in Supply Chain Management for Survival and Growth

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Sl No	July 2024	August 2024	September 2024
1	"ASME Certified Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing - Practioner Level"	Enhancing productivity in Grinding operations	Machining Aerospace Materials - Challenges and Solutions
2	Lean Daily Work Management (DWM) System	ASME Certified Advanced Concepts of GD&T - Professional Level	Effective new product development (NPD) process
3	How to achieve breakthrough results through Six sigma methodology	Best Practices for Manufacturing Cost Reduction	Tolerance Stack-Up Analysis
4	Heat Treatment - Metallurgy and Processes	Principles and Tools of Toyota Production System	Understanding TPM and Roadmap for Implementation of TPM
5	Antifriction Bearings - Selection, Applications and Condition Monitoring Aspects	Induction Hardening and Other Surface Heat Treatment Processes	Value engineering and value analysis (VA/VE)
6	"Fundamentals of Advanced Product Quality Planning (APQP) and Implementation of the Production Part Approval Process (PPAP)"	Implementing SPC, a Game Changer for Cost Reduction	Advanced Heat Treatment Processes in Metal Working
7	Implementing Industry 4.0 in Indian Context	How to reduce Cost of Poor Quality (COPQ)	How to become an effective FMEA Practitioner as per combined AIAG & VDA Version
8	CE Marking - Compliance requirements for Export Markets - Europe, North America & GCC countries	Metal Casting Technology - Processes, DFM, Quality and Cost Considerations	Primer Course on Sheet Metal Forming Technology
9	LM Guideways and Ballscrews - Types, Applications, Selection, Assembly and Trouble shooting	8D Problem Solving Methodology and 7 QC Tools	Cold Forging Technology - Process, DFM and Quality Considerations
10	How to bring in energy efficiency at Plant level?	Scientific Injection Molding - Principles, Tools and Techniques	How to Improve OEE and Achieve Manufacturing Excellence
11	Good Earthing Practices	A3 Problem solving methodology – As Per Toyota Production System	Operational excellence through QCD improvement
12	Engineering Materials and their selection - Key to Successful Design	Cleaning of Machined Parts - Need, Process, Do's and Don'ts	Measurement System Analysis (MSA)
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14	Design for welding - Scientific approach for strength and cost optimization	Defects Analysis and Troubleshooting of Moulded Parts	Certified specialist in Root cause analysis
15	Design For Manufacturing & Assembly (DFMA)	TRIZ: Shortcut to Innovative Solutions	Light-Weighting of Automobiles
16			Best Practices in Supply Chain Management for Survival and Growth

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Sl No	October 2024	November 2024	December 2024
1	"ASME Certified Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing - Practioner Level"	Enhancing productivity in Grinding operations	Machining Aerospace Materials - Challenges and Solutions
2	Lean Daily Work Management (DWM) System	ASME Certified Advanced Concepts of GD&T - Professional Level	Effective new product development (NPD) process
3	How to achieve breakthrough results through Six sigma methodology	Best Practices for Manufacturing Cost Reduction	Tolerance Stack-Up Analysis
4	Heat Treatment - Metallurgy and Processes	Principles and Tools of Toyota Production System	Understanding TPM and Roadmap for Implementation of TPM
5	Antifriction Bearings - Selection, Applications and Condition Monitoring Aspects	Induction Hardening and Other Surface Heat Treatment Processes	Value engineering and value analysis (VA/VE)
6	"Fundamentals of Advanced Product Quality Planning (APQP) and Implementation of the Production Part Approval Process (PPAP)"	Implementing SPC, a Game Changer for Cost Reduction	Advanced Heat Treatment Processes in Metal Working
7	Implementing Industry 4.0 in Indian Context	How to reduce Cost of Poor Quality (COPQ)	How to become an effective FMEA Practitioner as per combined AIAG & VDA Version
8	CE Marking - Compliance requirements for Export Markets - Europe, North America & GCC countries	Metal Casting Technology - Processes, DFM, Quality and Cost Considerations	Primer Course on Sheet Metal Forming Technology
9	LM Guideways and Ballscrews - Types, Applications, Selection, Assembly and Trouble shooting	8D Problem Solving Methodology and 7 QC Tools	Cold Forging Technology - Process, DFM and Quality Considerations
10	How to bring in energy efficiency at Plant level?	Scientific Injection Molding - Principles, Tools and Techniques	How to Improve OEE and Achieve Manufacturing Excellence
11	Good Earthing Practices	A3 Problem solving methodology – As Per Toyota Production System	Operational excellence through QCD improvement
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16			Best Practices in Supply Chain Management for Survival and Growth

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ANNUAL TRAINING CALENDAR Classroom-Bangalore 2024-25

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Sl No	April 2024	May 2024	June 2024	July 2024
1	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres
2	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming
3	Surface Finish - Measurement and Improvement	CNC Programming with MASTERCAM	Hands-on training in Operation of CNC Co-ordinate Measuring Machines (CMMs)	Care for Machine Tool Spindles - Systematic Approach for Spindle Maintenance
4	Design and development of Hydraulic Systems for Industrial Applications - A Practical Approach	Design of Fixtures for Machining Applications - A practical approach	Effective Maintenance towards Zero down time (ZDT) - Electrical Aspects of CNC Machines	"Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing"
5	"Maintenance, Troubleshooting of Hydraulics & Pneumatics systems"	Reliability Engineering - Concept, Calculations, Techniques and Tools	Electrical engineering concepts for non-electrical engineers	Advanced Concepts of GD&T
6	Building Lean Culture Through Value Stream Mapping (VSM)	Plant maintenance - Electrical aspects	Electric Motors: Application, Selection, Sizing & Optimization	Gear Manufacturing - Geometry, Terminology, Performance & Manufacturing Processes
7	VFD and its Industry Applications	Surface Plating and Protection Technology	Towards Zero Defects in Welding Applications	Design of Gearbox for Industrial Machinery
8	Materials Management and Inventory control	Servo Technology for Industrial Motion Control		Fundamentals of Injection Mould Design
9	Cost and Cycle time reduction in CNC Turning applications	Cost and Cycle Time Reduction in CNC Machining applications (Milling and Hole Making Operations)		Hands-on Training in Robot Programming
10		MASTER INJECTION MOLDING - Plastics, Tooling and Scientific Molding		Painting and Coating Technology - What, Why and How?

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Sl No	August 2024	September 2024	October 2024	November 2024
1	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres
2	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming CNC Programming with MASTERCAM
3	Assembly, welding and inspection fixtures - Design and manufacturing	Surface Finish - Measurement and Improvement	Design of Fixtures for Machining Applications - A practical approach	Effective Maintenance towards Zero down time (ZDT) - Electrical Aspects of CNC Machines
4	World Class Manufacturing - What, Why and How; Tools and Techniques	Machine Tool Spindles - Design Approach	Finite Element Methods (FEM) for structural design - How and Why?	Electrical engineering concepts for non-electrical engineers
5	Gear Metrology & Measurement Methods	Design and development of Hydraulic Systems for Industrial Applications - A Practical Approach	Reliability Engineering - Concept, Calculations, Techniques and Tools	
6	Essentials of VDA 6.3 implementation	How to Reduce Energy Cost in Manufacturing - A Need of the Hour	Business planning and budgeting for sustained profitability	
7	Programmable Logic Controller (PLC) - A Key Technology for Industrial Automation	"Maintenance, Troubleshooting of Hydraulics & Pneumatics systems"	Plant maintenance - Electrical aspects	
8	Defects Analysis and Troubleshooting of Die Cast (PDC) Parts	Building Lean Culture Through Value Stream Mapping (VSM)	Surface Plating and Protection Technology	
9	Cost and Cycle Time Reduction in CNC Machining applications (Milling and Hole Making Operations)	Hands-on training in PLC Programming and Networking	Sensors for Industrial Automation - Types, Selection and Applications	
10		Materials Management and Inventory control	Introduction to Digital Factory	
11		Cost and Cycle time reduction in CNC Turning applications	Cost and Cycle Time Reduction in CNC Machining applications (Milling and Hole Making Operations)	

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Sl No	December 2024	January 2025	February 2025	March 2025
1	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres
2	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming
3	Care for Machine Tool Spindles - Systematic Approach for Spindle Maintenance	Hands-on training in Operation of CNC Co-ordinate Measuring Machines (CMMs)	Machine Tool Spindles - Design Approach	Finite Element Methods (FEM) for structural design - How and Why?
4	"Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing"	Assembly, welding and inspection fixtures - Design and manufacturing	How to Reduce Energy Cost in Manufacturing - A Need of the Hour	Business planning and budgeting for sustained profitability
5	Advanced Concepts of GD&T	World Class Manufacturing - What, Why and How; Tools and Techniques	Design of Gearbox for Industrial Machinery	Essentials of VDA 6.3 implementation
6	Gear Manufacturing - Geometry, Terminology, Performance & Manufacturing Processes	Gear Metrology & Measurement Methods	Hands-on training in PLC Programming and Networking	Sensors for Industrial Automation - Types, Selection and Applications
7	Fundamentals of Injection Mould Design	Programmable Logic Controller (PLC) - A Key Technology for Industrial Automation	VFD and its Industry Applications	Servo Technology for Industrial Motion Control
8	Hands-on Training in Robot Programming	Defects Analysis and Troubleshooting of Die Cast (PDC) Parts		Introduction to Digital Factory
9	Towards Zero Defects in Welding Applications	Cost and Cycle time reduction in CNC Turning applications		
10	Painting and Coating Technology - What, Why and How?			

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TRAINING CALENDAR
Classroom-Pune
2024-25
Training Registration Link: Click Here

Sl No	April 2024	May 2024	June 2024	July 2024
1	Burr Management in Machining- Burr Minimization and Finishing of Edges	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres	Cost and Cycle Time Reduction in CNC Machining applications (Milling and Hole Making Operations)
2	Care for Machine Tool Spindles - Systematic Approach for Spindle Maintenance	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming	Design of Fixtures for Machining Applications - A practical approach
3	"Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing"	Importance of Safety in Maintenance	Advanced Programming for CNC Machining Centres	Surface Finish - Measurement and Improvement
4	Training Programme on Braking (CBS) Mechanical & Hydraulic	"Selection, Assembly & Trouble shooting of Linear Motion Guideways & Ball Screws for Industrial Machinery"	Cost and Cycle time reduction in CNC Turning applications	Machine Tool Spindles - Design Approach
5	Hot Forging Technology - Processes, DFM, Quality and Cost Considerations	Gear Manufacturing - Hobbing and Shaping Processes	Mastering 5-Axis CNC Programming Advanced Techniques and Strategies	Design of Gauges
6	Best Practices in Supply Chain Management for Survival and Growth	IDR approach - Trouble Shooting Component Defects in a Press Shop	Stamping Die Maintenance: A Way Forward for Enhancing Die Life and Product Quality	"Maintenance, Troubleshooting of Hydraulics & Pneumatics systems"
7			Programmable Logic Controller (PLC) - Basic Programming and Troubleshooting	Latest Trends & Applications in Fine Blanking Technology
8				Process and Die Design - Hot Forging Applications

Training Registration Link: Click Here

Sl No	August 2024	September 2024	October 2024	November 2024
1	Hands-on training in Operation of CNC Co-ordinate Measuring Machines (CMMs)	Challenges & solutions in Thread cutting	Burr Management in Machining-Burr Minimization and Finishing of Edges	Essentials of Process Planning for Machined Parts
2	Machining Defects Analysis and Troubleshooting	Effective CNC Maintenance-Electrical Aspects	Care for Machine Tool Spindles - Systematic Approach for Spindle Maintenance	Mastering 5-Axis CNC Programming Advanced Techniques and Strategies
3	Surface Plating and Protection Technology	Hands-on Training in Dimensional Metrology and Inspection	Assembly, welding and inspection fixtures - Design and manufacturing	Surface Finish - Measurement and Improvement
4	Advanced Technologies in Sheet Forming	Tube Forming - Equipment, Process, Applications and Latest Trends	"Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing"	"Maintenance, Troubleshooting of Hydraulics & Pneumatics systems"
5	Design of Stamping Dies for Sheet Metal Parts		Gear Metrology & Measurement Methods	Stamping Die Maintenance: A Way Forward for Enhancing Die Life and Product Quality
6			Hot Forging Technology - Processes, DFM, Quality and Cost Considerations	

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1	Interpretation of manufacturing drawing and Measurements	Selection of Cutting tools, parameters and programming in machining centres	Cost and Cycle Time Reduction in CNC Machining applications (Milling and Hole Making Operations)	Gear Metrology & Measurement Methods
2	Manufacturing processes and Programming in CNC turning Centres	Essential information for Manufacturing professionals and CNC programming	Care for Machine Tool Spindles - Systematic Approach for Spindle Maintenance	Tube Forming - Equipment, Process, Applications and Latest Trends
3	Advanced Programming for CNC Machining Centres	Design of Fixtures for Machining Applications - A practical approach	Design of Gauges	
4	Cost and Cycle time reduction in CNC Turning applications	Effective CNC Maintenance-Electrical Aspects	"Geometric Dimensioning & Tolerancing (GD&T) in Design through Manufacturing"	
5	Importance of Safety in Maintenance	Surface Plating and Protection Technology	Training Programme on Braking (CBS) Mechanical & Hydraulic	
6	"Selection, Assembly & Trouble shooting of Linear Motion	IDR approach - Trouble Shooting Component Defects in a Press Shop	Gear Manufacturing - Hobbing and Shaping Processes	
7	Programmable Logic Controller (PLC) - Basic Programming and Troubleshooting	Latest Trends & Applications in Fine Blanking Technology	Hands-on Training in Dimensional Metrology and Inspection	
8	Best Practices in Supply Chain Management for Survival and Growth		Machining Defects Analysis and Troubleshooting	
9			Process and Die Design - Hot Forging Applications	

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Classroom-Gurugram
2024-25
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Sl No	April 2024	May 2024	June 2024	July 2024
1	Process FMEA (latest AIAG-VDA edition)	Statistical Process Control (SPC)	Problem Solving Tools and Techniques	Process FMEA (latest AIAG-VDA edition)
2	Systematic Problem Solving using 7 QC tools and QI Story	Measurement System Analysis (MSA) - 4th edition	JH Pillar of Total Productive Maintenance	Systematic Problem Solving using 7 QC tools and QI Story

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1	Statistical Process Control (SPC)	Problem Solving Tools and Techniques	Process FMEA (latest AIAG-VDA edition)	Statistical Process Control (SPC)
2	Measurement System Analysis (MSA) - 4th edition	JH Pillar of Total Productive Maintenance	Systematic Problem Solving using 7 QC tools and QI Story	Measurement System Analysis (MSA) - 4th edition

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1	Statistical Process Control (SPC)	Problem Solving Tools and Techniques	Process FMEA (latest AIAG-VDA edition)	Statistical Process Control (SPC)
2	Measurement System Analysis (MSA) - 4th edition	JH Pillar of Total Productive Maintenance	Systematic Problem Solving using 7 QC tools and QI Story	Measurement System Analysis (MSA) - 4th edition

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