Manufacturing Technology Training
An IMTMA initiative

Burr Management in Machining-Burr Minimization and Finishing of Edges
Date : 14 May, 2025
Venue : IMTMA Technology Centre, Pune

INTRODUCTION

As long as there has been metal cutting, there have been burrs—an unwanted side effect of the process. Barring a revolutionary change, burr formation will always be a problem. With a few exceptions, conventional machining techniques always produce burrs. Burr prevention requires both conventional and nonconventional approaches. However, even when burrs are not produced, sharp edges left at the end of the machining process generally are not acceptable and require edge treatment. Burr removal represent unnecessary cost to the industry in various forms such as additional manufacturing, compensation, service, recall, and spoiling of the company image. Therefore, in most cases, it is a must either to remove or to secure the burr in order to prevent it from being detached from the part.

This program will give a clear knowledge to participants on **Burr definition,** burr geometry, Burr formation mechanisms, Burr types and standards for burrs & edges. Various methods on burr less operations, Burr prevention and Burr minimization technique will be discussed.

FOCUS AREAS

- Definition for Burr
- Burr geometry
- Burr formation
- Availability of standards for burr & edges
- Burr prevention
- Burr minimization
- Design for edge quality
- Eliminating waste
- Use of better cutting tools
- Practical demonstration on burr generation, prevention and minimization on CNC operations
- Deburring process enhancement
- Cross hole deburring
- Automation of deburring using robots
- Non traditional deburring processes with case studies
- Financial impact on getting rid of burrs

KEY TAKE AWAYS

After undergoing the programme, the participants will be able to -

- Define the burr and edge quality in the process and able to understand how it affects fit, function and safe use of product
- Plan & implement burr-less operations or minimise burr in manufacturing
- Gain knowledge on various conventional and non conventional methods for burr prevention and burr removal
- Get awareness on various equipments and processes practiced in manufacturing industry and their availability in the market
- Cost benefits and manpower reduction due to burr prevention activities

PARTICIPATION FEE

Rs. 6600/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 260/-
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 Senior / Middle management members and Engineers from functions of R&D, Product Design, Process Planning, Production, Quality Assurance from Automobile & auto ancillaries, Machine Tools, Consumer Durables, Aerospace, Defence & Railway establishments, General Engineering industries. Continuous improvement leaders, TPM & Six sigma project leaders can derive benefits out of the programme.

The programme will be highly interactive where participants can solicit feedback on specific technical issues from the expert faculty.

FACULTY

This programme will be conducted by **Mr. Avinash Khare** and Co-Delivered by **Mr. Rajesh Mani** an Industry Expert from Motherson Techno Tools Limited.

Mr. Avinash Khare is presently working as a Consultant and Head for IMTMA Pune Technology Centre for last 5 years. He has been designing, developing content and delivering wide range of Training Courses as a Faculty. He is Electrical Engineer by Qualification and he has worked for over 33 years at Tata Motors Pune in various capacities ranging from R&D in Industrial Electronics, Machine Maintenance, Technology Procurement, Head of Machine Shops, Tool Room Shop Head, Head of Die Design and Champion in Business Excellence. He has taught Instrumentation and Bio-Medical Instrumentation at Pune University as part-time faculty

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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.