

## INTRODUCTION

Burrs are unwanted and detrimental side effect of Turning, Milling, Drilling, Grinding and sheet metal cutting. They are a Safety hazard and they make the assembly of parts difficult post machining.

With clever machining strategy, product and process design it is possible to minimize burrs. However often there is need for specific deburring processes, incurring additional cost and loss of productivity.

Owing to shortfall on basic knowledge many times people call “Chip Breaking Failure” as excessive burr ; which has more to do with selection of proper cutting insert and speed – feed.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organising an offline/ classroom training on "**Burr Minimization and Finishing of Edges**" to enlighten about why and how the burrs are formed, how they could be minimized and what are the deburring technologies which may be used to get rid of burrs.

## FOCUS AREAS

- Introduction to Burrs and occurrence of Burr
- Types of Burrs
- Standards of Burr Measurement
- DFM Rules to minimize machining burrs
- **Burr Minimization for Turning, Drilling and Milling operation**
- Hand tools for manual deburring
- Conventional Deburring Methods
- Integrated Deburring Tools for machining
- Non-Conventional Deburring Technologies
- Root causes and minimization of Burrs in Sheet metal cutting
- **Demonstration on Bur management in machining**

## KEY TAKE AWAYS

After undergoing the programme, the participants will gain:

- Understand between burrs vs chip breaking failure
- Insight into mechanism of burr formation; its dependence on material properties
- 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 machining and shearing operations for minimising burrs
- Gain knowledge on various conventional and non-conventional methods for burr prevention and burr removal
- Get awareness on various equipment and processes practiced in manufacturing industry

## PARTICIPATION FEE

**Rs. 5000/-**  
+18% GST

**IMTMA Members/ Micro Companies/ Individuals/  
Educational Institutions / Students/ IMTMA Non  
Members/ Others**

**USD 200/-**  
**Overseas Participants**

**Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company**

## FACULTY

This programme will be conducted by **Mr. Avinash Khare** and will be co-delivered by an **Industry expert from Motherson Techno Tools Limited**.

**Mr. Avinash Khare** is a multi-faceted technology professional, He is an Electrical Engineer by Qualification and 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

### For Registration Contact

**Nagraj Hamilpure**  
**Programme Coordinator**  
9881616902  
[n.hamilpure@imtma.in](mailto:n.hamilpure@imtma.in)  
**Back End Operations**  
9742626488  
[enquiry@imtmablr.com](mailto:enquiry@imtmablr.com)

### Contact Address

**INDIAN MACHINE TOOL MANUFACTURERS' ASSOCIATION**  
12/5, D-1 Block, MIDC, Chinchwad,  
Pune-411019  
Board Line : +91 7066030531 / 532

