Manufacturing Technology Training
An IMTMA initiative

Defect analysis and troubleshooting of casting
Date : 25 to 26 June, 2026
Venue : IMTMA Technology Centre, Pune

Last date for registration 18 June 2026

INTRODUCTION

We are said to be living in an era of Plastics since 1974, as the world consumption of plastics from that year onward exceeded that of steel by volume! From household appliances to airplanes, from tooth brushes to telephones, from Computers to cars, everything seems to be made out of plastics these days. Injection moulded plastic parts offer unbeatable combination of Light Weight Construction, Flexibility, Toughness, Chemical Resistance, Long-term Performance and Cost Effectiveness.

The defects in injection moulding may be caused by poor part design, wrong selection of material, poor injection mould design, poor manufacture of mould, non-optimum process parameters and wrong matching of mould with machine amongst others. Knowledge of ways and means of overcoming these defects is necessary to obtain world class injection mouldings.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing a 2 day programme on Defect analysis and troubleshooting of casting on 25 - 26 June 2026 at Pune.

FOCUS AREAS

- Introduction to injection moulding?
- Types of Injection moulding techniques
- Types of moulds used in the industry
- DFMA in plastic moulding
- The moulding machine
    - Operating conditions i.e.,
    - Injection Pressure,
    - Melt Temperature,
    - Mould temperature
    - injection speed & time, etc,
    - Optimization of moulding process through scientific moulding
- Various defects, causes and solutions on:
    - Sink Marks
    - Weld lines
    - Streaks
    - Blistering
    - Jetting
    - Short shots
    - Flashes
    - Warpage
    - Ejector marks
    - Scratches on the parts
    - Burn Mark
- Moulding simulation and its significance in reducing time to market
- Latest trends and technologies in Injection moulding
- **Visit to moulding shop to understand and identify the real time problems in the moulded components.**
- **Real life case studies and samples from industry.**

KEY TAKE AWAYS

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

1. Understand root causes & address the defects with suitable remedies
2. Move towards zero defects in moulding
3. Become self-certified supplier for OEMs
4. Implement analytical approach to problem solving of moulding defects.
5. Understanding the importance of mould / die design during product design.
6. Importance of process simulation during die design

PARTICIPATION FEE

Rs. 4999/-
+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

PARTICIPANT PROFILE

This programme will benefit Managers, Engineers, Designers, Middle Management and technical personnel involved in the functions of Design and Development of moulded components, Processing of moulded parts, Quality Control, mould design and manufacturing.

Pre requisite: This will be an Advanced level programme and the participants need to have basic knowledge of Injection moulds and moulding process.

Participants need to bring their molding related problems with complete details including part drawing / model, photos and samples for case study discussion and suggested solutions.

FACULTY

This program is conducted by **Mr. Ajay Tare,**

Mr. Ajay Tare, is in the fields of Metals and Metallurgy, for the last 40 years and retired as COO from a very large Commercial Heat Treaters and handled positions as VP Operations, Sr. Manager, Operations Managers, QA Head in various prestigious companies like Bajaj Auto ltd, Mahindra and Mahindra Ltd, Eicher Good Earth Ltd, Nagpur Tools and Avdhoot Technocrats. His experience in all the portfolios of Metallurgical Engineering; R & D, Operations, Quality, Manufacturing Engineering, NPD, Business Excellence.

He is an Metallurgical Engineer from Nagpur and also completed Post Graduate Diploma in Quality Management, PGDQM, from prestigious Mahindra Institute of Quality. He is Six-Sigma Green Belt professional. On management side, he has successfully completed Harvard Manage Mentor, HMM, by HB School. Since he is a Industrial Trainer he has passed "Train the Trainer" by Dale Carnegie Training Centre.

A very versatile experience of processing all types of ferrous materials like Case Hardening Steels, HSS, HDS, HCHCr, Stainless Steels, Bearing Steels, Spring steels, Tool steels, Boron steels and non-ferrous materials like Aluminium, Copper, Brass, Bronz, Magnesium alloys.

He is well conversant with Processing of parts of defence, mining, earth moving equipment, automobile, tractor, Industry and their requirements.

Currently, he is associated with prestigious organisation for Training and Teaching and working as a "Professional Consultant" for many companies, including MNCs.

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.