Manufacturing Technology Training
An IMTMA initiative

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

INTRODUCTION

Metal casting is one of the oldest manufacturing process, which basically involves pouring molten metal into a mould cavity, where upon solidification it takes the shape of the cavity. Beauty of this process is, any complicated shape in any metal can be casted.

Metal casting is a complicated process with many process variables. There are numerous opportunities for things to go wrong in a casting operation, resulting in quality defects in the product. A casting defect is an undesired irregularity in a metal casting process. Some defects can be tolerated while others can be repaired, otherwise they must be eliminated. It is a great challenge to work on casting defects and eliminate them.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing a training programme on **“Defect Analysis and Troubleshooting of Casting”.**

FOCUS AREAS

- Introduction to Metal casting
- Important casting processes like sand and Die casting
- Gating and risering system
- Importance of Pattern system
- Various Casting defects and remedies for Ferrous as well as Non Ferrous materials
- DFM of casting to avoid casting defects
- Importance of casting simulation in trouble shooting of defects
- Case studies on defects analysis and troubleshooting

KEY TAKE AWAYS

At the end of the program, the participants shall be able to:

- Understand various casting processes
- Understand gating and risering system to trouble shoot casting defects
- Understand pattern and its importance in defect prevention
- Understand various casting defects and its remedies
- Understand DFM requirements of casting in part design to avoid casting defects
- Understand importance of casting simulation in trouble shooting of casting defects

PARTICIPATION FEE

Rs. 4999/-	Rs. 2500/-	Rs. 999/-	USD 200/-
+18% GST	+18% GST	+18% GST	
IMTMA Members/ Micro Companies/ Individuals/ IMTMA Non Members/ Others	**Professors**	**Student**	**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, IMTMA Subject Matter Expert.

He 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

Santosh Singh
Programme Coordinator
9021442692
santosh@imtma.in
Back End Operations
9742626488
enquiry@imtmablr.com

Contact Address

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

imtmatrainning.67038796@hdfcbank

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.