



# Two Days Proficiency Improvement Program on **Metallurgy for Non-Metallurgist**



Metallurgical background is necessary to every professional who are working in engineering industry . This course is designed to help professionals who do not posses metallurgical background. ASM Pune chapter is taking this course for many years that has helped many individuals.

The course shall impart basics of metallurgy , in making , shaping and treating the ferrous and non ferrous metalsa and their alloys as a broder scope to know metallurgy at large in short time.

This knowledge , regardless of field will help in better decision making , addressing the problem and interacting with experts metallurgists.

Eminents who are practising metallurgists from the respective fields shall deliver lectures ,clear the consepts and discuss few case studies.

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**Date : - 6<sup>th</sup> and 7<sup>th</sup> August 2025**  
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**From : - 09:00 am to 06:00 pm**  
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**Venue :-**

**Deccan Gymkhana, CTS No. 766, F.P 244, Bhandarkar Road,  
Deccan Gymkhana, Pune, Maharashtra 411004**

## Who should attend?

The program will be extremely useful to practicing engineers who need to have a comprehensive understanding of materials, their processing and properties.

- Industry professionals
- Buyers of materials
- Academicians, student and faculties
- Engineers / Managers working as Supervisors, Technicians, Graduate /
- Diploma Trainees & Executives, who are responsible for end product properties.
- Mechanical, industrial, manufacturing & metallurgy Engineers.

## Intended Learning Outcomes:

On the completion of program, participants will be able to implement techniques & standard practices related to their work and will be able to:

- Understand importance & application of Iron Cementite diagram.
- Understand and describe the Time Temperature Transformation (TTT) diagram and its influence on phase transformations and microstructure.
- Understand fundamentals of four purposes for doing HT process.
- Understand the effect on mechanical properties & microstructures resulting from heat treatment initiated by thermal transformation.
- Understand the factors affecting heat treatment process.
- Understand Heat treatment of cast iron, stainless steels, and tool steels.
- Summarize the principles of Surface Modification.
- Understand various metallurgical manufacturing processes such as casting, forging, welding and cold working.
- Understand the metallurgical aspect of new quality management systems.

**The program contents have been adapted to the current industry expectations.**

## Topics to be Covered

1. Steel and Cast irons
2. Nonferrous metals
3. Heat Treatment of Ferrous metals
4. Case Hardening
5. Induction Hardening & Nitriding
6. Manufacturing Process
7. Vacuum Heat Treatment
8. Mechanical Testing
9. Metallography
10. Failure analysis
11. Quality tools and systems
12. Design for Corrosion
13. Surface Modification
14. Joining of metals

**On the second day the question answer session will be attended by industry experts, faculty and executive committee members.**

## Programme Co-ordinating Committee

<b>Mr. Rahul Gupta</b>	Chairman - ASM International Pune Chapter Trustee – ASM International.
<b>Mr. D G Chivate</b>	Vice Chairman of ASM International Pune Chapter
<b>Ms. Ruta Barve</b>	Secretary of ASM International Pune Chapter
<b>Mr. Hemant Zaveri</b>	Treasurer of ASM International Pune Chapter and ASM India National Council
<b>Mr. B R Galgali</b>	Chairman of ASM India National Council
<b>Mr. R T Kulkarni</b>	Secretary of ASM India National Council
<b>Mr. Udayan Pathak, FASM</b>	Ex-Chairman of ASM International Pune Chapter
<b>Mr. Y S Gowaikar</b>	Faculty Member
<b>Dr. Raju Kadam</b>	Faculty Member
<b>Mr. Anant Andhale</b>	Faculty Member
<b>Dr. D A Karandikar</b>	Faculty Member
<b>Mr. Abhishek Sharma</b>	Faculty Member
<b>Dr. Pradeep Kulkarni</b>	Faculty Member
<b>Mr. Vineet Marathe</b>	Faculty Member
<b>Mr. Ravindra Kamble</b>	Faculty Member
<b>Mr. Deepak Kulkarni</b>	Faculty Member
<b>Mr. L D Deshpande</b>	Executive Committee Member
<b>Mr. Arun Adiverekar</b>	Executive Committee Member

### Registration Fees

On the second day the question answer session will be attended by industry experts, faculty and executive committee members.

Category	Registration fees (Rs.) (per participant)	
<b>Engineers &amp; Professionals</b>	8,000 /-	For Bulk Registration Additional 20% discount will be applicable for 3 or more participants over all categories.
<b>For ASM Members</b>	7,000 /-	
<b>Teaching Faculty</b>	4,000 /-	
<b>Students</b>	2,500 /-	
• GST 18 % Extra • GST Exempted for SEZ and Student participant		

### Mode of Payment and Registration :

1. At Par / Multicity Cheque or Demand Draft in favor of **"ASM International Pune Chapter"** payable at Pune.
2. Credit Card Swipe Facility available at the Registration Desk.
3. QR Code Available.

For Registration Google Form Link –  
<https://forms.gle/HEvE1kFSVuRK8qiT9>

*Note: ASM International Pune Chapter reserves the right to change the dates, schedule, contents, speakers, venue etc. for the program without any notice.*

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Program Co-ordinator :-  
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### ASM INTERNATIONAL PUNE CHAPTER

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