

INTRODUCTION

Metallurgy is a branch of material science that focus on the physical and chemical behaviour of metallic elements and its alloys. Knowledge of metallurgy is very important for any design and production engineers. Design of any part generally based on Strength, which comes from alloy composition and metallurgical structure. It is not just enough if design engineer select right alloy but also have to specify metallurgical requirements to achieve required properties. Production engineers have to understand the metallurgical requirements and develop process to achieve that. Hence awareness of metallurgy play an important role in today's engineering world.

Keeping this in view, Indian Machine Tool Manufacturers' Association is organizing a 3 Hrs online programme on "**Metallurgy for non-metallurgist-Ferrous Materials**". This course provides important metallurgical knowledge to those who are not metallurgists. You will learn how metals can be made stronger, more corrosion resistant, formable etc. This course will help to choose right metals, alloys and processing solutions best suited for your production goals.

FOCUS AREAS

- Introduction to engineering metals and alloys
- Roles of various alloying elements
- Introduction to metal atomic structures and its importance
- Classifications of metals and alloys and its phase diagram
- Ferrous metallurgy; 1. Steel 2. Cast Iron
- Metallurgical Changes during Heat treatment of ferrous

KEY TAKE AWAYS

After undergoing the program, the participants will be able to have an overview of :-

- Understand basics of metallurgy
- Understand metals and alloy classifications
- Understand all ferrous group of alloys and its metallurgy
- Understand metallurgical changes during heat treatment

FEE PER PARTICIPANT (PER LOGIN)

Rs. 7500/-
+18% GST
**IMTMA Members/ Micro Companies/ Individuals/
Educational Institutions / Students/ IMTMA Non
Members/ Others**

USD 300/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 30% for 6 and more delegates being nominated from the same company

FACULTY

This program will be conducted by **Mr. Ganapathi K N,**

Mr. Ganapathi K. N. is currently associated with IMTMA as a faculty member, following his retirement from his full-time role at the organisation. He brings with him over 32 years of rich experience, including 16 years in the industry and 16 years in academics and training.

A postgraduate in Metal Casting Science and Engineering from UVCE, Bengaluru, Mr. Ganapathi has held various positions in both ferrous and non-ferrous foundries prior to joining IMTMA. He possesses in-depth knowledge of foundry operations and has successfully provided practical solutions to a wide range of foundry-related challenges.

During his career, he has delivered specialized training programs in the metal casting domain to more than 300 engineers from various manufacturing organizations across India. In addition, he has also taught metal casting topics to postgraduate engineering students, contributing significantly to industry-oriented technical education.

For Registration Contact

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