



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 presently working as an advisor Training at IMTMA, having 16 years of industrial and 18 years of academic/training experience. He is a mechanical engineer with post graduate in metal casting science and engineering. Prior to IMTMA, Ganapathi has worked at various capacity in manufacturing companies. He has expertise in GD&T, Stack-up Analysis, Engineering Materials, Metallurgy, Metal casting and heat treatment processes. He has carried out many specialised program on GD&T, metal casting technologies, Metallurgy and heat treatment for industries. He has also taught these topics to post graduate engineering students.

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