



INTRODUCTION

Engineering design depends on materials that are shaped, joined and finished by processes. Design requirements define the performance required of the materials, expressed as target values for certain design-limiting properties. Perhaps one of the most important tasks that an engineer may be called upon to perform is that of materials selection with regard to component design. Inappropriate or improper decisions can be disastrous from both economic and safety perspectives. Therefore, it is essential that the engineers become familiar with and versed in the procedures and protocols that are normally employed in this process.

Understanding materials, their properties and behaviour is fundamental to engineering design, and a key application of materials science. Understanding the procedures for material selection in mechanical design is very important in order to ensure that the most suitable materials for a given application are identified from the full range of materials available.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organising Webinar on " **Engineering Materials and their selection - Key to Successful Design**".

FOCUS AREAS

- Importance of Materials
- Types of material and its basic properties
- Ferrous alloys, its properties and applications
- Highlights of few nonferrous alloys
- Importance of Material selection
- Method of material selection

KEY TAKE AWAYS

After undergoing the programme, the participants will get

- Understand importance of Material
- Understand various ferrous and nonferrous alloys
- Recognize alloys and its properties
- Application of various ferrous and nonferrous alloys
- Understand importance of material selection
- Understand method of material selection process

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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