

INTRODUCTION

Most engineering and automotive parts be it drive line or engine or structural members need to have adequate strength and durability to perform their respective functions. At the same time these parts need to be cost effective. To achieve these twin objective the components are subjected to surface strengthening treatments. Most commonly used surface strengthening treatments is Induction hardening. For engineers the proper knowledge of this process is essential so that they carry out their jobs effectively.

Keeping this in view, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing a 2 day training program on “**Induction Hardening**”.

Special Offer: Participants will be provided **FREE ACCESS** to **IMTMA E’ learning** course on "**Heat Treatment**" towards continual learning and up skilling. Access will be valid from 8th July to 17th July 2021.

FOCUS AREAS

- Understanding of Basic metallurgy of Iron, Crystal structure, phase transformation, Iron carbon diagram, TTT diagram
- Concept of Hardenability and factors affecting it. Role of alloying elements
- Materials for Induction hardening, Induction hardening principle
- Different Inductor designs
- Case studies from user industries
- Different types of equipments for Induction hardening process

KEY TAKE AWAYS

After undergoing the programme, the participants will be able to learn about -

- Basics metallurgy for Induction hardening
- Induction hardening Principle
- Materials for Induction hardening
- Equipment for induction Hardening
- Induction coils types and design

FEE PER PARTICIPANT (PER LOGIN)

Rs. 4500/-
+18% GST

**IMTMA Members/ Micro Companies/ Individuals/
Educational Institutions / Students/ IMTMA Non
Members/ Others**

USD 350/-
Overseas Participants

Group Concession : 20% 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. S.C. Balawat and Industry Expert from EFD Induction.**

Ganapathi K N, is an Advisor at IMTMA, having 16 years of industrial and 16 years of academic experience. He is a post graduate in metal casting science and engineering. Prior to working at IMTMA, he has worked at various capacity in many manufacturing companies. He has also imparted specialized training on Metallurgy, Heat treatment, GD&T, Metal casting and other manufacturing processes domain to more than 2000 engineers across manufacturing companies in India. He has also taught above topics to post graduate engineering students.

S.C.Balawat is a Metallurgical Engineering graduate with extensive expertise in metallurgy and manufacturing. He has more than 40 years of Industrial experience worked in Motor industries Co. Bangalore, Automotive Axles Limited Mysore and John Fowler India Limited, Bangalore. Post retirement, he is providing consulting in manufacturing and metallurgical aspects for forging and foundry industries.

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