

TWO DAYS TRAINING PROGRAMME ON

# Melting & Metal Treatment and Metallurgy of Aluminium Cast Alloys

30 - 31 August 2024 (Fri-Sat) | Time: 9.30 am to 5.30 p.m.

Venue : CRS Seminar Hall,

The Institute of Indian Foundrymen - Coimbatore Chapter, Unit B-3B, 2nd Floor, Elysium Central,  
Opp Carmel Garden School, Puliyakulam main road, Coimbatore - 641 045

## INTRODUCTION

This 2- days training program is designed to arm you with knowledge required in facing future challenges in Aluminum casting industry. With fast growing Indian Industry and the entry of EVs, Aluminum industry is experiencing unprecedented accelerated changes. Casting customers (like OEMs) are expecting higher involvement from the casting suppliers (foundries); right from early stages of casting design, to achieving cost effective process and production. Such involvement requires deeper and upgraded knowledge. This training will be your slight edge in gaining the new businesses. Key to success right now is good understanding of technology, process variables, process control and sound knowledge of metallurgy. Small scale and medium scale aluminum foundries usually find a gap in the knowledge and are unable to use proper technology to produce quality castings, at competitive costs. Keeping all this in mind, we have designed this training program to help you improve the understanding of metallurgy and help you improve casting quality with consistency & competitiveness.

## COURSE FACULTY



### Mr. R. V. Apshankar

Mr. R V Apshankar passed his engineering from IIT Kanpur in 1984. He completed his M Tech in Mechanical Engineering from IIT Bombay and specialized in the subject of Heat Transfer.

Since 1993, he has been running the firm Energy Systech in Pune. Mr. Apshankar specializes in the subject of Energy Conservation in furnaces and is an expert in product building. The Electrical and Fuel-fired Furnaces developed by Mr Apshankar are known in the market for their efficiency and reliability. The present focus of Energy Systech is on service to the Aluminium casting industry through furnaces for melting and holding and for Heat Treatment of castings. Energy Systech also makes Melt Treatment equipment like Rotary Degassing and Density Index Unit.



### Dr. J. Anburaj

Associate Professor, Psg College Of Technology

B.E.- Metallurgical Engineering

M.E.- Industrial Metallurgy

Ph.D.- Metallurgical Engineering

Teaching – 18 years

Industry – 5 years

Expertise on

(i) Casting Metallurgy

(ii) Physical Metallurgy

(iii) Heat Treatment and Surface Engineering

(iv) Stainless Steel Metalurgy

## CONTENTS

- Melting,
- Holding Furnaces,
- Fuels,
- Crucible Care,
- Metal treatment and its quality assessment :Metallurgy of Aluminium cast alloys
- Why Aluminium Alloys ?
- Melting of Aluminium Alloys - Melting Furnaces and Crucibles
- Melting and Solidification behaviour
- Molten metal treatment - Fluxing, Degassing, Refining and Modification
- Integrated molten metal treatment
- Quality control of aluminium melt
- Advances in molten metal quality control

## WHO CAN PARTICIPATE?

- ✓ Engineers, managers, working in Aluminium Casting Foundries-SAND GDC, LPDC or HPDC, in various areas-Manufacturing, Methoding, NPD, Process Design, QA, etc, purchase
- ✓ New entrants to foundries, Middle, Senior management level.
- ✓ New generation entrepreneurs.
- ✓ Casting designers, QA persons in OEMs
- ✓ Vendor Development Engineers, Managers.

**We encourage & invite case studies/questions/issues concerning your organisation beforehand for discussion. No issue is too big or too small!**

**Please send your registration form and payment details by email.**

## Registration Fees

Category	Members	Non-Members
• Individual	Rs. 7,080.00	Rs. 7,788.00
• Corporate (3 delegates)	Rs. 19,116.00	Rs. 21,028.00

Inclusive of GST

Delegate Fees includes Course Material, Tea & Lunch etc. during the program.

## RTGS / NEFT details

Account Name : Great Diecasting Technology Forum  
Bank Name : UCO Bank  
Branch Name : Deccan Gymkhana Branch  
Account No. : 06870210002889  
IFSC Code : UCBA0000687  
MICR : 411028009  
Type of A/c : Current  
Payment to be made in favor of 'Great Diecasting Technology Forum' payable at Pune.

## GDC TECH FORUM

'Guruprasad', 1<sup>st</sup> Floor, 37/4/A, 6<sup>th</sup> Lane, Prabhat Road, Pune 411 004, India  
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