

Two Days Training Programme On Melting and Molten Metal Treatment of Aluminium Casting Alloys & Casting Defects - Analysis and Remedial Measures



QUIZ COMPETITION

Date : 25th May 2023
at 6.30 pm
at same venue

25 - 26 May 2023 (Thu-Fri) | Time: 9.30 am to 5.30 p.m.

Venue : HOTEL RASIKA, R. S. No. 4/26, E Ward, Opp. Shahu Market Yard, Kolhapur.

INTRODUCTION

With the automobile industry expanding in India at a rapid pace, the demand for aluminium die casting is also increasing. The same is also true for aluminium castings required by general engineering industry, the white goods sector and the electrical industry. At the same time the customer demand for much improved quality, high degree of consistency, coupled with

competitive price has placed foundries under constant pressure for continuous improvements. Key to success will be good understanding of technology, process variables and process control as well as sound knowledge of metallurgy. Small scale and medium scale aluminium foundries find a gap in the knowledge and use of proper technology to produce quality

castings at competitive costs. Keeping this in mind a training programme is being conducted to help the aluminium die casters to improve their understanding of molten metal treatment and metallurgy and help improve the quality of the castings with consistency & competitiveness.

WHO CAN PARTICIPATE?

Supervisors / Engineers / Managers working in Aluminium Foundries especially in -

- Production
- Melting & Casting
- Quality Control
- Purchase

- Also

- Users of Aluminium Castings
- Suppliers of Raw Materials,
- Foundry Chemicals, Equipments

CONTENTS

Day 1 Melting and Molten Metal Treatment

1. Why Aluminium Alloys ?
2. Melting of Aluminium Alloys - Melting Furnaces and Crucibles
3. Melting and Solidification behaviour
4. Molten metal treatment - Fluxing, Degassing, Refining and Modification
5. Integrated molten metal treatment
6. Quality control of aluminium melt
7. Advances in molten metal quality control

Day 2 Casting defects - Analysis and Remedies

1. Casting specifications and casting defects
2. Classification of casting defects
3. Casting defects in GDC with example
4. Casting defects in LPDC with example
5. Casting defects in HPDC and remedies
6. GDC & LPDC coating practices

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

COURSE FACULTY



Madhav Athavale

M. E. (Specialisations in Foundry Sciences) from IISc, B'lore D. B. M., Symbiosis Institute of Management, University of pune Relevant Experience: 33 years with Foseco India Ltd. Worked in senior positions in Technical Department



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.

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

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