Manufacturing Technology Training
An IMTMA initiative

MASTER INJECTION MOLDING - Plastics, Tooling and Scientific Molding
Date : 9 to 11 July, 2024
Venue : IMTMA Technology Centre, Bengaluru

INTRODUCTION

Today the world is moving faster and customer expectations from a plastic manufacturer has reached sky high. Even after having huge demand for plastic molds and molded products, we are falling short to seize this opportunity. Despite our efforts to acquire top-of-the-line precision machinery and equipment, we have been unable to close the gap in producing consistently high-quality molds that meet rapid qualification and consistently deliver quality parts over their lifespan.

To address this gap, Indian Machine Tool Manufacturers' Association (IMTMA) is organizing an offline training on **Plastics, Tooling and Scientific Molding.**

FOCUS AREAS

- Robust moulding process facts and consistency
- Plastic raw material basics
- Plastic raw material selection & advanced raw materials
- The manufacturing process and moulding machine
- Material preparation for quality and consistent moulding
- Establishing decoupled moulding for repeatability - Procedure to establishing and fine-tuning moulding
- Product design- Plastic part design principles, guidelines
- Mold design
- Trouble shooting- Molding Defects root cause and Solutions
- Application development
- Moldflow report interpretation

KEY TAKE AWAYS

- Participants gain skills in plastic injection moulding, tooling design, and scientific moulding techniques
- Knowledge on raw material selection and of how raw material characteristics can affect the moulding process and final product
- learn to quickly understand root cause and troubleshoot common injection moulding issues.
- Overview of different conversion process like injection moulding, blow moulding, rotation moulding, extrusion, thermoforming, compression moulding
- Detail understanding on critical aspects of injection moulding process and machine
- Understanding the importance of raw material preparation and how it reflects in part property.
- Procedure to establishing and fine-tuning injection moulding
- Good design practices and techniques for injection moulding parts
- Understanding of various polymer applications, its value and selection criteria
- How to improve predictive decisions by in-depth understanding of moldflow result plots

PARTICIPATION FEE

Rs. 13750/-
+18% GST
IMTMA Members/ Micro Companies/ Individuals/ Educational Institutions / Students/ IMTMA Non Members/ Others

USD 550/-
Overseas Participants

Group Concession : 10% for 3 to 5 and 20% for 6 and more delegates being nominated from the same company

PARTICIPANT PROFILE

- This programme will benefit people who are into different roles in injection moulding and tooling like Product designers, Mold design, Mold makers, Engineering teams, Moulding professionals, CAE teams, technical service professionals etc.
- Professionals with more than 3 years’ of industrial experience.

FACULTY

This program will be conducted by **Mr. Subash Ellath.**

Mr. Subash Ellath: Plastic Technology Expert with 20 years' experience in thermoplastics and thermoset technology. Recognized trainer & consultant for diverse industries. Hands own Expertise: mold design, product design, rheology, raw materials, injection molding, trials and troubleshooting. Conducted training for top Indian OEMs. Worked with Supermax, Teknic, Larsen & Toubro, Schneider Electric, Sabic, GM Modular. Founder of One Hundred Technologies, a plastic technology consultancy. Partner & Business Development Head for Unicleanplus purging compound.

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REGISTRATION : Prior registration for participation is necessary. Number of participants is limited and will be accepted on ‘First Come First Serve’ basis. A Certificate of participation will be issued to participants.
Important Information : Participation fee includes, course material, working lunch and tea / coffee. Interested companies are requested to register online by clicking on 'REGISTER' button and by filling up the nomination authority and participant's details in specified form.