Manufacturing Technology Training
An IMTMA initiative

Scientific Injection Molding - Principles, Tools and Techniques
Date : 19 to 20 August, 2025
Time : 1340 Hrs to 1700 Hrs (Online Mode)

INTRODUCTION

Scientific molding is a process whereby the fill, pack and hold stages are treated separately to minimize fluctuations while improving overall product consistency. Separating the stages is also known as decoupled injection molding. Molders who utilize scientific injection molding equipment, software, and practices can, according to scientific molding educator John Bozzelli, “reduce cycle times, increase machine efficiency, and ultimately make more money.” Other experts who further developed made this know-how accessable are: Rod Groleau, Suhas Kulkarni.

Keeping this in mind, IMTMA is conducting a 6 hours program on Scientific Injection Molding Techniques for Plastic parts.

FOCUS AREAS

- Traditional vs. scientific molding
- Injection molding process stages
- Scientific molding process steps
- Advantages of scientific molding
- Advanced technology in scientific molding
- Applying this knowledge from pellet to consistent molded article.

KEY TAKE AWAYS

- Give injection molding process engineers techniques to lower cycle time, increase production volume and efficient usage of molding machine.
- Understand how scientific molding makes more money for molders
- Various instrumentations, software technologies, aided with simulation.

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

The program shall be delivered by **Mr. Rakshit Amba.**

Trained as a young Plastics Mold Maker & Designer since 1996. With Diplomas from CIPET, India; Plastics Engineering Degrees from Pittsburg State University, USA & University of Massachusetts, USA. Over the last 2-3 decades, Rakshit held roles in various plastics trainig institutes, family owned, start-up & multinational companies in plastics. Experienced in Injection molding, Film Extrusion, Compounding, Reactive Extrusion, Mold-Making & Design, Techno-Commercial & Marketing. He is currently employed full-time with Novoloop, Inc in California, USA. Language Fluency: Hindi, Tamil, Telugu, English and Beginner/Intermediate Fluency in Kanada, German, Spanish.

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REGISTRATION : Prior registration with an online advance payment is must. Number of participants is limited and will be accepted on ‘First Come First Serve’ basis. A Certificate of participation will be issued to participants.