

MOLD MAINTENANCE

TOPIC SPECIFIC EDUCATION PROVIDED BY THE
**MOLD MAINTENANCE
CENTER OF EXCELLENCE**



American Injection
Molding Institute

by  **Beaumont**

WWW.AIM.INSTITUTE

MOLD MAINTENANCE, TROUBLESHOOTING & REPAIR

Learn a structured approach to mold maintenance, standard terminology, and more

Course Highlights

- Bench techniques such as which precision tools to use for a given situation
- How to clean molds efficiently (ultra-sonics, dry ice)
- The importance of defect position analysis to determine patterns and trends of maintenance issues
- Basic mold types and terminology

HOT RUNNER TROUBLESHOOTING & REPAIR

Focus on how hot runner systems function, & various troubleshooting & repair techniques

Course Highlights

- Hot runner system designs, function, and key areas
- Troubleshoot, document, and layout out manifold systems using an ohmmeter
- Learning Ohm's Law and how it is applied during heater inspection
- How to wire, splice, repair, check resistance, heater verification, and replacement of various components

MOLD MAINTENANCE STRATEGIES

Ideal for personnel who are looking for ways to design, improve, and manage a busy mold repair shop

Course Highlights

- Effectively use computerized maintenance management software
- How to stop the "firefighting" culture
- How to utilize mold cleaning technologies
- Strategies for team building

MOLD COMPONENT WELDING, POLISHING, & REPAIR

Learn repair mold components, such as gate inserts and cores/cavities using a variety of welding and polishing techniques

Course Highlights

- Learn how to and perform laser welding
- Learn how to and perform TIG welding
- How to stone mold components
- The uses and issues of bluing and component fitting
- Considerations for polishing with hands-on labs

MOLD TEXTURE & REPAIR

Hands-on course entirely focused on mold texturing techniques

Course Highlights

- A deeper understanding of the texture and repair process in a hands-on educational manner
- How to address issues with Weld, EDM and HAZ
- How different steels and aluminum affect the texturing and repair process
- Functional and visual reasons for choosing a particular grain



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