

# Mold Design Training

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## Course Information

<b>Course Title:</b>	<b>Mold Design Training</b>
<b>Duration &amp; Location:</b>	<b>4 Days, 07 – 10 Jul 2026</b> at BEG Training Center in <b>Windsor (CT), US.</b>
<b>Target Audience:</b>	Operators, Production Specialist,
<b>Course prerequisites:</b>	Entry level course to the glass industry. No forming knowledge is required.
<b>Instructor:</b>	Operational Trainer: Mold Design
<b>Delivery Mode &amp; Language:</b>	In Person in English

## Course Objectives

- Understand the role and vision of the Mould Design Department
- Interpret container requirements using a structured development roadmap
- Apply the “Gob for the Job” principle to container and mould design
- Focus on inner bore control and its importance to container performance
- Apply general rules for equipment development

## Assessment Methods

- Quizzes, Assignments, Practical Participation
- Final Group Task

## Resources Required

- Personal Protective Equipment
- eLearning platform access (pre-learning)

## Simulation Software (if applicable)

**Course Schedule (Daily Outline from 8:00 am to 4:30 pm)**

<b>Training Days</b>	<b>Topics</b>	<b>Activities</b>	<b>Expected Outcomes</b>
Day 1	<ul style="list-style-type: none"> <li>• Introduction and goals of the seminar</li> <li>• Mould Design Department tasks (Our vision)</li> <li>• How glass influences the mould design</li> <li>• Container requirements (A roadmap on a container development)</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor-led presentations</li> <li>• Group discussion on mould design role and responsibilities</li> <li>• Case examples showing glass behavior effects on mould design</li> <li>• Walkthrough of container development roadmap</li> </ul>	<ul style="list-style-type: none"> <li>• Participants understand seminar objectives and structure</li> <li>• Clear awareness of mould design department vision and responsibilities</li> <li>• Understanding of how glass properties influence mould design decisions</li> <li>• Ability to identify key container requirements and development steps</li> </ul>
Day 2	<ul style="list-style-type: none"> <li>• Follow-up on: Container requirements (A roadmap on a container)</li> <li>• Container forming in BB process</li> <li>• Container forming in PB process</li> <li>• Gob for the job</li> <li>• Mould Equipment parts</li> </ul>	<ul style="list-style-type: none"> <li>• Review and discussion of Day 1 topics</li> <li>• Process flow explanation for BB and PB forming</li> <li>• Comparative analysis of BB vs. PB processes</li> <li>• Hands-on operation / component identification</li> <li>• Physical or visual review of mould equipment part</li> </ul>	<ul style="list-style-type: none"> <li>• Reinforced understanding of container development requirements</li> <li>• Ability to explain BB and PB forming sequences</li> <li>• Understanding the relationship between gob design and container quality</li> <li>• Familiarity with mould equipment parts and their functions</li> </ul>
Day 3	<ul style="list-style-type: none"> <li>• IS timing</li> <li>• Focusing on the inner bore control</li> <li>• Mould Design limits and restrictions</li> <li>• Invert dimensions and holder selection</li> <li>• General rules for Equipment development</li> <li>• Limitations of push-up profile</li> <li>• Limitations of shoulder profile</li> </ul>	<ul style="list-style-type: none"> <li>• Timing sequence explanation with diagrams</li> <li>• Technical discussion on bore control and tolerances</li> <li>• Design constraint examples and best practices</li> <li>• Case studies on holder selection and profile limitations</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to understand IS machine timing impact on quality</li> <li>• Improved awareness of critical inner bore parameters</li> <li>• Recognition of mould design constraints and limitations</li> <li>• Better decision-making for invert, holder, and profile designs</li> </ul>
Day 4	<ul style="list-style-type: none"> <li>• BB parison design rules</li> <li>• PB parison design rules</li> <li>• NNPB parison design rules</li> <li>• Blank and blow mould cooling</li> </ul>	<ul style="list-style-type: none"> <li>• Detailed technical presentations on parison design principles</li> <li>• Comparison of BB, PB, and NNPB parison requirements</li> <li>• Cooling design discussion using real examples</li> <li>• Interactive Q&amp;A and problem-solving exercise</li> </ul>	<ul style="list-style-type: none"> <li>• Ability to apply correct parison design rules for each forming process</li> <li>• Understanding of differences between BB, PB, and NNPB designs</li> <li>• Awareness of mould cooling importance on forming and quality</li> <li>• Improved capability to support robust container and mould designs</li> </ul>



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