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Mold Design Training

Course Information

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

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

Training Days	Topics	Activities	Expected Outcomes
Day 1	• Introduction and goals of the seminar • Mould Design Department tasks (Our vision) • How glass influences the mould design • Container requirements (A roadmap on a container development)	• Instructor-led presentations • Group discussion on mould design role and responsibilities • Case examples showing glass behavior effects on mould design • Walkthrough of container development roadmap	• Participants understand seminar objectives and structure • Clear awareness of mould design department vision and responsibilities • Understanding of how glass properties influence mould design decisions • Ability to identify key container requirements and development steps
Day 2	• Follow-up on: Container requirements (A roadmap on a container • Container forming in BB process • Container forming in PB process • Gob for the job • Mould Equipment parts	• Review and discussion of Day 1 topics • Process flow explanation for BB and PB forming • Comparative analysis of BB vs. PB processes • Hands-on operation / component identification • Physical or visual review of mould equipment part	• Reinforced understanding of container development requirements • Ability to explain BB and PB forming sequences • Understanding the relationship between gob design and container quality • Familiarity with mould equipment parts and their functions
Day 3	• IS timing • Focusing on the inner bore control • Mould Design limits and restrictions • Invert dimensions and holder selection • General rules for Equipment development • Limitations of push-up profile • Limitations of shoulder profile	• Timing sequence explanation with diagrams • Technical discussion on bore control and tolerances • Design constraint examples and best practices • Case studies on holder selection and profile limitations	• Ability to understand IS machine timing impact on quality • Improved awareness of critical inner bore parameters • Recognition of mould design constraints and limitations • Better decision-making for invert, holder, and profile designs
Day 4	• BB parison design rules • PB parison design rules • NNPB parison design rules • Blank and blow mould cooling	• Detailed technical presentations on parison design principles • Comparison of BB, PB, and NNPB parison requirements • Cooling design discussion using real examples • Interactive Q&A and problem-solving exercise	• Ability to apply correct parison design rules for each forming process • Understanding of differences between BB, PB, and NNPB designs • Awareness of mould cooling importance on forming and quality • Improved capability to support robust container and mould designs

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