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Introduction to the Glass Industry

Course Information

Course Title:	**Introduction to the Glass Industry – Electrical & Operational**
Duration & Location:	**5** Days, **17-21 May 2027** at BEG Training Center in **Windsor (CT), US**
Target Audience:	New employees to the Glass Industry, customers of Glass Container Producers
Course prerequisites:	Entry level course to the Glass Industry
Instructor:	Operational Trainer: Ian Kirton
Delivery Mode & Language:	In Person in English

Course Objectives

- Understand the Complete Glass Manufacturing Process
- Recognise the Main Technologies Used in a Glass Plant
- Develop an Understanding of Key Glass Forming Processes
- Build a Foundation for Further Technical and Operational Training

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 to batch mixtures and the effects on glass property • Cullet Assessment	• Going through the batch plant tour and understanding mixtures.	Participants will be able to understand the glass formula and the glass properties
Day 2	• Introduction to furnace structure • Introduction to furnace operation • Principles of Forehearth operation.	• Examination of Furnace and layout, observation of glass level and checks • Hands-on walkthrough of the Forehearth gas and electric boost.	• Understanding of Furnace structure and operating principles • Understanding of Forehearth operation and thermostat controls.
Day 3	• Gob Forming equipment and mechanisms • Principle of Gob Forming • Gob Radar operation	• Observation of Gob Forming mechanisms, and Ceramic tools • Gob creation: hands-on making gob and forming shape and length. • Monitoring gob and controlling weight with Gob Radar	• Understanding how a gob is formed and controlled, the tools we use, and how we change them.
Day 4	• Introduction to servo and pneumatic IS machines and glass forming • Swab Robot and auto swab	• Operation of the glass forming machine: loading glass and swabbing • Operation of the swab robot and timing	• Understand how the machine runs and the forming process • The role that the swabbing plays in the forming process.
Day 5	• Glass coatings and annealing practices, Inspection business equipment and ware handling	The ware handling set up and lehr operation and quality	• Understanding of warehandling and Inspection business, quality control