

Introduction to the Glass Industry

Course Information

Course Title:	Introduction to the Glass Industry – Electrical & Operational
Duration & Location:	5 Days, 27 Sept. – 01 Oct. 2027 at BEG Training Center in Sundsvall, Sweden
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
- Recognize 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 Sevo 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

