

Blow and Blow, NNPB, WMPB, GobRadar, FlexRobot Training and Section Radar

Course Information

Course Title:	Blow and Blow, NNPB, WMPB, GobRadar, FlexRobot, Section Radar
Duration & Location:	5 Days, 11-15 October 2027 at BEG Training Center in Windsor (CT), US
Target Audience:	Operators, Production Specialists and Managers working with BEG forming processes and automation
Course Prerequisites:	Basic understanding of glass manufacture and forming-machine operation is recommended
Instructor:	Process Trainer: Ian Kirton
Delivery Mode & Language:	In person in English

Course Objectives

- Explain the principles and operational differences of Blow and Blow, NNPB and WMPB forming
- Understand gob forming, GobRadar measurement, closed-loop weight control and process-data interpretation
- Operate FlexRobot safely, identify its components, navigate the interface and understand swabbing setup
- Use the Emhart GLASS model and practical observations to prevent, diagnose and correct defects

Assessment Methods

- Knowledge checks, process comparisons and daily recaps
- Practical participation, automation exercises and final group task

Resources Required

- Personal protective equipment for practical machine activities
- Process presentations, samples, fault examples and course workbook
- Access to GobRadar, FlexRobot and an active machine or training equipment

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Course Schedule (Daily Outline from 8:00 am to 5:00 pm)

Training Days	Topics	Activities	Expected Outcomes
Day 1	- Glass, conditioning and gob-forming fundamentals - Process comparison - GobRadar hardware	- Review tube, plunger, orifice, gob shape and weight - Compare Blow and Blow, NNPB and WMPB - Locate cameras, connection box, scale, controls and actuators	- Explain consistent gob requirements - Differentiate the three processes - Describe GobRadar components
Day 2	- Blow and Blow process and defects - GobRadar screens and data - Calibration and weight control	- Review mould design, cooling, loading, reheat and bore control - Navigate 3D model, gob images, comparison and statistics - Practise manual weighing and automatic weight control	- Describe the Blow and Blow cycle - Interpret GobRadar trends - Use data to stabilise gob weight and shape
Day 3	- NNPB pressing and lightweighting - Critical NNPB defects - FlexRobot safety and hardware	- Review pressing, cooling, alignment and swabbing - Analyse spike bore, bird swing and split finish - Identify robot, auxiliary axis, controls, signalling and pneumatics	- Explain NNPB requirements - Apply the GLASS model - Describe safe FlexRobot operation
Day 4	- WMPB principles and defects - FlexRobot interface and FlexIS controls - Swabbing templates and startup	- Analyse base spike, line-over finish and over-press - Navigate screens, settings and timing rules - Set up swabbing pages, templates, compounds and functions	- Explain WMPB requirements - Operate the interface - Relate automatic swabbing to process stability
Day 5	- Integrated process and automation - Warnings, diagnostics and calibration awareness - Machine setup and final practical task	- Check loading, alignment, cooling, swabbing and settings - Review recovery, diagnostics and G1/G2 calibration purpose - Use machine and automation data to diagnose selected faults	- Monitor forming as one process - Respond safely to warnings - Demonstrate structured corrective action

