



- ✓ Determine how to get the most out of your PET blowmolding program
- ✓ Learn how to deal with processing variables that affect PET bottle production
- ✓ Recognize the issues that disrupt downstream operations
- ✓ Understand how to overcome rPET processing challenges
- ✓ Realize new methods to achieve lightweighting goals



“The key to continuous and efficient bottle production is rooted in the knowledge, skills and experience of your production staff and their understanding of the process and management of production line equipment.”

## Attend Agr Academy to learn a broad range of solutions

New regulations and corporate commitments are increasing the focus on sustainability in the PET bottle market. Aggressive sustainability goals are pressuring self-manufacturers to increase the use of rPET, making bottle production more complicated and difficult. In order to keep up with these trends, it is imperative that those involved in the production of PET bottles fully understand the properties of PET, the use of recycled materials and the issues and circumstances that affect production.

Agr Academy is a comprehensive training and education program designed to help your organization manage these issues and close gaps in knowledge, skills and experience of personnel involved in the production of PET bottles. The Agr Academy offers a number of standard courses as well as customized, in-plant programs that focus on particular needs of your operation.

### PET 101 3 days

- ✓ New to PET blowmolding?
- ✓ Opening a new facility?
- ✓ High personnel turnover?
- ✓ Need to expand your knowledge of the PET process?
- ✓ Experiencing defects and color issues?

This course covers the basics of PET, material, and provides a fundamental understanding of how PET is used in the bottle making process. You will learn about the PET material science and why PET is a preferred packaging material for producing bottles. This course also covers the steps from raw material through the various types of blowmolding processes in use today and how to achieve the necessary performance standards required by the industry.



### Advanced Blowmolder Process Management 3 days

Learn how to optimize the production line from the blowmolder through the case packer. This program introduces Agr's Process Pilot+® automated blowmolder management system and how it can be used to overcome process variability, with the goal to maximize production efficiency and output. This is ideally suited for personnel involved in light-weighting and rPET production, as well as those who have attended Agr's PET101 course. Classroom and extensive hands-on training, covering the setup and advanced operation of the Process Pilot+ system, are part of this program.



## Addressing difficult quality problems in the rPET Environment **5 days**

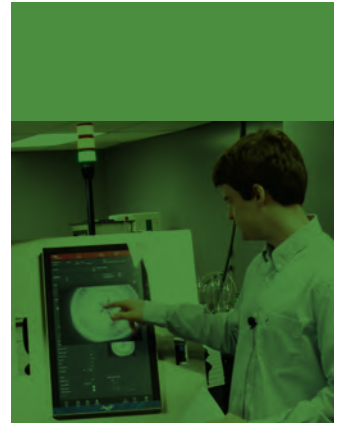
Even as a seasoned operator, you can learn how to overcome the increased variability and unique quality demands that rPET introduces to the blowing process. This program focuses on the use of Agr's Pilot Vision+™ system to help manage the quality of rPET bottles during the production process. It covers basic vision technology and all aspects of rPET related defects, as well as the proper setup and use of the Agr vision tools to identify and manage bottle quality without excessive rejects. This course includes classroom and hands-on training of the Agr Pilot Vision+ system.

## Precision measurement of Plastic bottle and preform characteristics **3 days**

Learn how to perform comprehensive thickness and dimensional measurement of your bottles and preforms including hard to measure dimensional characteristics such a thread-start, finish dimensions, tilt, lean and base clearance as well as thickness profiling. This course reviews the different methods of measurement, from manual to automated. Participants will also have the opportunity to work with the Agr Gawis4D® measurement system to learn the capabilities of this tool. The course focuses on job setup of a range of different types of bottles and preforms for both thickness and dimensional measurement. It incorporates extensive work on creating jobs and using industry measurement standards and methods.

## Learn from the experts how to process PET bottles **5 days**

This **in-plant** course covers the fundamentals of blowmolder processing including classroom instruction on the basics and science behind 2-stage blowmolder operation with hands-on process setup at the blowmolder. This comprehensive course begins with a basic understanding of the blowmolding process and includes a detailed review of the human, environmental and equipment variables that affect bottle production. Cover the tricks of the trade that experts employ to overcome blowmolding challenges. This course also delves into common issues that can affect blowmolder operations and bottle production with a cause, effect and solution approach. The program will focus on preform management, blowmolder optimization as well as rPET and the unique issues it presents, guidance on overcoming these issues. Classroom and extensive hands-on, at the blowmolder training covering the setup and operation of the blowmolder process and Process Pilot+ system are part of this program.



Courses are open enrollment at Agr Butler, PA, USA campus unless noted. All courses in this program can be held at your facility to focus on advancing the skills of your personnel in their own environment. For more details on scheduling a program in your facility, email [sales@agrintl.com](mailto:sales@agrintl.com) or local your Agr representative. Visit the Agr website, [agrintl.com](http://agrintl.com), for additional information and on-line enrollment.

## 2023 SCHEDULE

| Course   | Spring Session      | Fall Session                      |
|--|---------------------|-----------------------------------|
| <b>PET 101</b>   | March 28 – 30, 2023 | September 13 – 14, 2023           |
| <b>Advanced Blowmolder Process Management</b>                        | April 18 – 20, 2023 | September 19 – 21, 2023           |
| <b>Addressing Difficult Quality Problems in the rPET Environment</b> | April 24 – 28, 2023 | October 9 – 13, 2023              |
| <b>Precision Measurement of Plastic Bottles in the Laboratory</b>    | May 8 – 12, 2023    | October 23 – 27, 2023             |
| <b>Learn from the Experts how to Process PET Bottles</b>             |                     | In-plant only<br>Call to schedule |

