



Newsletter August 2005

NEW: P3 - Precision PVT Processing Training Program

PRIAMUS opens its training facility in Brunswick, Ohio, where training classes will be offered.



PRIAMUS training facility



Classroom

PRIAMUS has developed a new training program, titled P3: Precision PVT Processing. PVT means pressure, volume, and temperature as it relates to the thermoplastic used in the injection molding process. Priamus measures plastic pressure and temperature inside of the mold cavity because the thermoplastic transitions from a liquid to a solid during the injection molding process. By having similar PVT behavior from cavity to cavity, part quality becomes less variable and more consistent, which leads to customer satisfaction and increased profitability.

The training program is based on three levels:

P3 Level I: *Pellet to Part*

A three-day lecture and lab course focused on the basic PVT approach to injection molding, this training is designed for all staff in an injection molding company. The participant will come away from this class with an awareness of how PVT relationships affect all aspects of plastics processing (from pellet to part) and how these directly impact final part quality.

Course topics include:

- Injection molding introduction
- Injection molding polymers
- Molding machine components
- Molding force requirements
- Injection molding PVT pathway
- Injection molding economics
- Labs
- Tests

Dates

- 6 – 7 October 2005
- 11 - 13 October 2005
- 25 - 27 October 2005
- 8 - 10 November 2005
- 15 - 17 November 2005
- 29, 30 November and 1 December 2005
- 13 - 15 December 2005

Course is limited to 4-6 students
Course Fee: \$1,500 per student

Register now at www.priamus.com



P3 Level II: *The PVT Chamber*

A three-day lecture and lab course designed for process technicians, maintenance staff, tooling engineers, and their respective managers. The participants will come away with an in-depth understanding of how the mold acts as a PVT chamber. Students will learn how to build a robust process based upon the P3: Precision PVT Processing approach, including utilization of in-mold cavity pressure and cavity temperature.

Course topics include:

- Polymer morphology; influence of temperature and pressure
- Plastic temperature; influence on shrinkage
- Plastic pressurization; influence on shrinkage
- Volumetric filling rate
- Plastic cooling rate
- Injection molding machine capabilities
- Development of a P3: Precision PVT Processing



Course is limited to 4-6 students
 Course Fee: \$2,025 per student
 Prerequisite: P3 Level I

Lab

P3 Level III: *The PVT Pinnacle*

A three-day lecture and lab course designed to teach process engineers and process technicians how to effectively utilize PVT relationships and PVT-based, closed loop control systems for specific applications. Students will learn how to troubleshoot, diagnose, and improve their process and part quality based upon all aspects of the PVT pathway.

Course topics include:

- Development and documentation of a P3: Precision PVT Processing
- Injection molding machine capability prove out
- P3: Precision PVT processing troubleshooting

Course is limited to 4-6 students
 Course Fee: \$2,500 per student
 Prerequisite: P3 Level II

Upon request, PRIAMUS will provide training classes at your facility. For more information on the advantages of on-site training, call one of our educational representatives at (877) 774-2687.

PRIAMUS SYSTEM TECHNOLOGIES, LLC

3061 Nationwide Parkway
 Brunswick, OH 44212 / USA
 Tel. (877) 774-2687
 Fax (877) 678-5062
 www.priamus.com