WHY PENN COLLEGE?

BENEFITS OF INDUSTRIAL TRAINING
• Learn how the right choice of plastics materials can make a difference in your product’s performance.
• Learn key factors that make plastics processes profitable and reduce quality errors.
• Learn successful fabrication techniques in molding, extrusion, forming, etc. addressing your problems on the plant floor.
• Produce more informed, efficient, and motivated employees.
• Receive hands-on training with a large array of equipment.
• Obtain Individualized instruction.
• Engage in ample networking opportunities.
• Discuss real-world challenges.

ADDITIONAL INFORMATION

LOCATION/FACILITIES
All workshop activities (except Remote Extrusion) are held on the main campus of Pennsylvania College of Technology, an affiliate of The Pennsylvania State University, in Williamsport, PA. The College is located in central Pennsylvania with easy access off Interstate 180.

APPROPRIATE DRESS
Casual business/jeans attire is recommended, appropriate for plastics processing and testing lab. Safety glasses will be provided.

ACCOMMODATIONS
Registrants will receive a confirmation email with discounted rates at participating hotels. Participants are responsible for making their own lodging arrangements.

AIRPORTS
The Williamsport Regional Airport (IPT) provides commuter air service via American Airlines through Charlotte, NC. Free shuttle service will be provided to and from the Williamsport Regional Airport and College from our preferred hotels, so a car rental is not necessary (before 11 p.m.). Other airport options, with approximate driving times (rental car needed):
• University Park (SCE) – 1 hour
• Harrisburg International (MDT) – 2 hours
• Elmira/Corning (NY) Regional (ELM) – 1.5 hours
• Wilkes-Barre/Scranton International (AVP) – 1.5 hours
• University Park (SCE) – 1 hour
• Philadelphia International (PHL) – 3 hours

CANCELLATION POLICY
Cancellations will be accepted and full refunds issued when notifi ed at least two weeks prior to the class start date. Within two weeks of the class start date, the company is responsible for the full cost. Company may substitute alternate personnel for paid seats at any time.

The PIRC may cancel or postpone any course because of insuffi cient enrollment or other unforeseen circumstances. If a program is canceled or postponed, PIRC will refund registration fees, but cannot be held responsible for any other related costs, charges, or expenses (including cancellation/change fees assessed by airlines or travel agencies).

The PIRC is one of the top plastics technology centers in the nation for research, development, and education related to injection molding, extrusion, blow molding, rotational molding, and thermoforming.

Partnering with the PIRC gives plastic manufacturers the opportunity to increase productivity while decreasing capital expenditures, operating costs, and development costs.

Services offered to plastics manufacturers include:
• New product development
• Material selection
• Testing and analysis
• Custom compounding
• Process technology
• Education and training

PIRC clients have access to:
• Industrial-scale process equipment and extensive material testing laboratories
• World-class training programs (including customized, on-site training programs, workshops, online courses, and national seminars)
• Expert consulting staff, including Penn College faculty
• Student interns and graduates that bring education and experience to the workplace

Penn College is one of only six colleges in the nation offering plastics degree programs accredited by the Engineering Technology Accreditation Commission of ABET.

B.S. – Plastics & Polymer Engineering Technology
A.A.S. – Plastics & Polymer Technology

Penn College graduates are in high demand for positions in manufacturing operations, process technology, supervision, research and development, product and machine design, and more. Companies employing Penn College alumni include Arkema, Currier Plastics, DuPont, First Quality, General Cable, Grainer Packaging, Mitsubishi Chemical Advanced Materials, Ring Container, SEKISUI KYDEX, Truck-Lite, Tyco, and West Pharmaceutical Services.

Penn College encourages qualified persons with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodation or have questions about the physical access provided, please contact Disability Services at 570.321.5533, TTY: 570.321.5528, or fax 570.327.4501 in advance of your participation or visit.

Penn College® is registered in the U.S. Patent and Trademark Office.
Registration

- Registration is limited and on a first-come, first-served basis.
- Pre-registration is required.
- On Campus Workshops include instruction with handout materials, refreshments, and lunch. Classes with sponsors will include a complimentary newspaper dinner(s) except for the last day of class. Registrants are responsible for all other meals and lodging.
- The registration fee may be paid by check, MasterCard, Visa, Discover, purchase order, or authorization to invoice your company.
- Register online at pct.edu/pirc or call 570.321.5533.

2020 Workshop Schedule

Remote Extrusion Workshop

Instructor: Dr. Kirk Cantor
Location: Remote

This unique remote instruction offering combines the expertise of Dr. Kirk Cantor with the training capabilities and modern facilities of Pennsylvania College of Technology’s Plastics Innovation & Resource Center (PIRC). Via the Penn College iLab platform, Dr. Cantor will lead participants through demonstrations on the single, twin-screw, blown film and co-extrusion lines, capillary rheometer, and tensile tester. This innovative program combines fully interactive instructor-led labs with targeted pre-recorded segments for optimal efficiency of time and learning outcomes. Participants are encouraged to “Ask the Expert” for guidance on their extrusion-based needs.

Injection Molding Processing 1

Instructor: Tim Weston
Location: Advanced Technology & Health Sciences Center, Room E127 & Plastic Labs

This workshop covers scientific or systematic molding method set-ups, operation, and injection molding process control. All molders should master the principles of decoupled molding to produce consistent product in the most efficient way. Leaving this course, participants should be able to set up cycles on various injection molding machines with identical results. Mastery of the decoupled molding process assures all molders will achieve the same process results.

Injection Molding Processing 2 & Troubleshooting

Instructor: Tim Weston
Location: Advanced Technology & Health Sciences Center, Room E127 & Plastic Labs

This workshop covers the science of injection molding and is ideal for advanced individuals looking for solutions to the toughest molding problems. Learn how the machine, mold, and plastic material all play a role in the molding of plastic parts. The hands-on component follows the pellet from start to finished part, highlighting how to make a consistent, quality molded part. Each participant will bring a molding issue that will be analyzed and the class will solve the problem while the instructor acts as a facilitator.

Rotational Molding & Advanced Materials Workshop

Instructor: R. Dru Laws
Location: Advanced Technology & Health Sciences Center, Room E140 & Plastic Labs

This workshop features Shell Polymers Rotational Molding Center of Excellence to give participants hands-on experience in combination with the classroom training led by Dru Laws on higher-level technology in rotational molding. This two-day workshop will focus on developing the connection between materials preparation, shaping, final part quality, and review the latest advances in materials and technology in the industry. Target audience: supervisory, lead operators, technicians, and engineers. It allows participants to network and share experiences with other staff facing similar day-to-day issues.

Instructor: Jay Waddell
Location: Advanced Technology & Health Sciences Center, Room E127 & Plastic Labs

This workshop will cover scientific or systematic molding method set-ups, operation, and injection molding process control. All molders should master the principles of decoupled molding to produce consistent product in the most efficient way. Leaving this two-day workshop, participants will focus on developing the connection between materials preparation, molding, final part quality, and review the latest advances in materials and technology in the industry. Target audience: supervisory, lead operators, technicians, and engineers. It allows participants to network and share experiences with other staff facing similar day-to-day issues.

Hands-On Heavy-Gauge/Cut-Sheet Thermoforming

Course Leader: Jay Waddell
Location: Advanced Technology & Health Sciences Center, Room E127 & Plastic Labs

Jay Waddell will lead the workshop with special guest speakers to be announced. Topics include advances in raw materials and sheet extrusion, heating and cooling sheet, forming, trimming, and handling technology. Advanced session on raw materials, rheological properties, specialty sheet, part, mold and plug assist design, heating technology, advanced forming techniques, trimming technology, assembly methods, and no-tooling tools. Hands-on sessions include thermoforming process techniques and troubleshooting, materials testing, and sheet extrusion basics.

Hands-On Thin-Gauge/Roll-Fed Thermoforming

Course Leader: Mark Strachan
Location: Advanced Technology & Health Sciences Center, Room E140 & Plastic Labs

Mark Strachan will lead the workshop with special guest speakers to be announced. Topics include advances in raw materials and sheet extrusion, heating and cooling sheet, forming, trimming, and downstream handling of parts. Advanced session on raw materials, rheological properties, specialty sheet, part, mold and plug assist design, heating technology, advanced forming techniques, trimming technology, assembly methods, and no-tooling tools. Hands-on sessions include thermoforming process techniques and troubleshooting, materials testing, and sheet extrusion basics.

Color Science & Weathering

Instructor: Jack Ladson
Location: Advanced Technology & Health Sciences Center, Room E127

Color Science & Weathering

This workshop will cover scientific or systematic molding method set-ups, operation, and injection molding process control. All molders should master the principles of decoupled molding to produce consistent product in the most efficient way. Leaving this course, participants should be able to set up cycles on various injection molding machines with identical results. Mastery of the decoupled molding process assures all molders will achieve the same process results.

“I The Injection Molding Processing Workshop has given me new and scientific ideas of how to address issues in my site. The methods learned are highly valuable since it will increase the up-time of the machines, process wise, and will decrease defects and scrap along the way.”

Lenny Figueroa Ortiz, Technoplastics Inc.
Anasco, Puerto Rico

“I thought the course gave a very good overview of the practice in general. Dru and the staff at Penn College walked us through many steps and processes to be successful in the ratio-molding trade.”

Shane Poole, Encore Enterprises
Smethport, NC

Hands-On Heavy-Gauge/Cut-Sheet Thermoforming

PLATINUM SPONSOR
Röchling

Hands-On Thin-Gauge/Roll-Fed Thermoforming

PLATINUM SPONSOR
Röchling

Instructor: Joshua Rice
Location: Advanced Technology & Health Sciences Center, Room E140 & Plastic Labs

This workshop provides fundamental knowledge of plastics (polymers), how they are processed, tested, and characterized. Gain skills in how plastic material testing can improve plastic process control. Participants will learn about the fundamental science of injection molding and will bring a molding issue that will be analyzed and the class will solve the problem while the instructor acts as a facilitator.

Instructor: John Keefe
Location: Advanced Technology & Health Sciences Center, Room E140 & Plastic Labs

This workshop covers the science of injection molding and is ideal for advanced individuals looking for solutions to the toughest molding problems. Learn how the machine, mold, and plastic material all play a role in the molding of plastic parts. The hands-on component follows the pellet from start to finished product and will highlight how to make a consistent, quality molded part. Each participant will bring a molding issue that will be analyzed and the class will solve the problem while the instructor acts as a facilitator.

Instructor: Mark Strachan
Location: Advanced Technology & Health Sciences Center, Room E127 & Plastic Labs

This workshop will cover scientific or systematic molding method set-ups, operation, and injection molding process control. All molders should master the principles of decoupled molding to produce consistent product in the most efficient way. Leaving this two-day workshop, participants will focus on developing the connection between materials preparation, molding, final part quality, and review the latest advances in materials and technology in the industry. Target audience: supervisory, lead operators, technicians, and engineers. It allows participants to network and share experiences with other staff facing similar day-to-day issues.

Instructor: Lireny Figueroa Ortiz
Location: Advanced Technology & Health Sciences Center, Room E127 & Plastic Labs

This workshop will cover scientific or systematic molding method set-ups, operation, and injection molding process control. All molders should master the principles of decoupled molding to produce consistent product in the most efficient way. Leaving this course, participants should be able to set up cycles on various injection molding machines with identical results. Mastery of the decoupled molding process assures all molders will achieve the same process results.

“Fantastic class. Perfect blend of classroom instruction and hands-on work with the equipment and materials that we discussed in class. Excellent instructor!”

Frank Aponte, Thermo Fisher Scientific
Millersburg, PA

“The Thin and Heavy-Gauge Workshop is information packed and well presented. Attending this workshop has given us a better understanding of what we do.”

Ralph Hufnagl, Jamestown Plastics, Inc.
Brockton, NY

“Full of information and well presented. Attending this workshop has given us a better understanding of what we do.”

Juan C. Santiago, Maserion, Puerto Rico

“Great course. Information packed and well presented. Attending this workshop has given us a better understanding of what we do.”

Dario Velasquez, Technoplastics Inc.
San Juan, Puerto Rico

“Good balance of theory and practical. Very well structured and organized.”

Anu Gupta, ExxonMobil Chemical
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