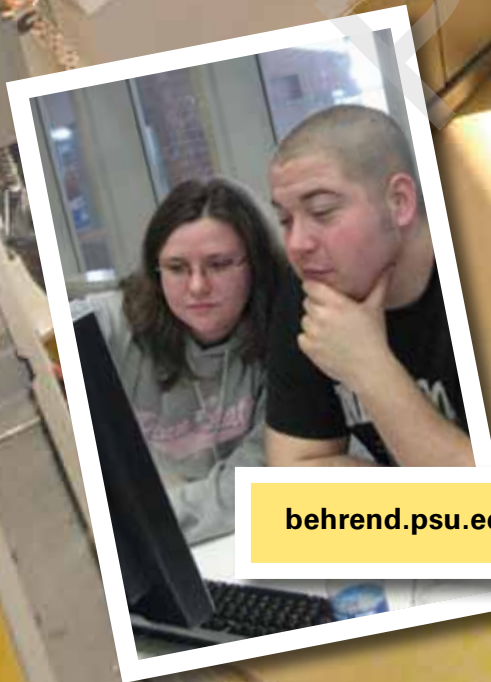


2012 WORKSHOPS AND SEMINARS

Plastics Training Academy



behrend.psu.edu/plastics

PENNSTATE



Erie The Behrend College

Plan to make training a part of your plastics processes

Courses

Design of Experiments for Injection Molding June 18–20, \$1,395

Those who are involved at any level in the development or production of plastics parts and who are concerned with the continuous improvement of their processes can benefit.

FDA regulations for Medical Molding July 30, \$700

The presentation will provide a basic understanding of the connection between injection molding and the regulatory environment for the medical device industry.

Geometric Dimensioning and Tolerancing Update (online)

No date restrictions, enroll anytime, \$249

Changes to the dimensioning and tolerancing standard have affected the meaning and preparation of engineering drawings. This seminar will explain the changes/additions to ASME Y14.5M-1994 standard and reasons for these changes.

Geometric Dimensioning and Tolerancing Full Fundamentals (online)

No date restrictions, enroll anytime, \$549

Discover the major pitfalls of traditional coordinate tolerancing—and how they may be overcome by using Geometric Tolerancing.

Injection Molded Part Design Principles May 17–18, August 9–10, \$1,195

This course provides an overview of plastic part design, material shrinkage, and flow characteristics, mold design, and

the injection molding process—and explains the causes of and solutions to many unexpected problems.

Injection Mold Design Principles May 15–16, \$1,195

This course offers a thorough review of the fundamental mold design requirements and concentrates on the design elements necessary to produce a sound operational injection mold.

Injection Molding Principles March 5–7, May 22–24, August 13–15, \$1,395

This course offers a thorough exploration of injection molding basics and terminology and includes diagnosis and discussion of problem parts. You will spend approximately half of this workshop in hands-on molding exercises.

Injection Molding Troubleshooting March 7–9, August 15–17, \$1,395

This course provides hands-on experience in solving common molding problems in the processing lab. It teaches the theory behind the solutions and problem-solving strategies in the classroom.

Injection Molding with Liquid Silicone Rubber August 2, \$700

Part and mold design considerations, as well as processing will be reviewed. An overview of equipment used as well as molding strategies specific to liquid silicone rubber (LSR) will be provided.

Introduction to Plastics Engineering Technology (online) September 13, \$850

This 10-week online course will introduce you to the fundamental concepts and properties of plastic materials and the influence of chemical structure on polymer properties. It also introduces the primary types of plastic processes used in the industry today.

Medical Product Development July 31–August 1, \$1,195

Attendees will be provided with an overview of the plastic medical device design process. The seminar will teach students how products proceed from basic idea through production in the context of a regulated industry.

Mini Tab Tutorial June 20, 1:00–4:30 p.m., \$400

Basic data manipulation, sample size determination, control charts and other charts, capability analysis and DOE's will all be discussed briefly.

Mold Maintenance and Mold Setting July 31–August 1, \$1,195

Learn sound principles for increasing mold and tool room efficiency and why it is critical to identify and separate the different skill levels and maintenance stages and to couple these with accurate mold histories.

Polymer Science and Material Selection Fundamentals June 6–7, \$1,195

Basic polymer fundamentals will be taught with a strong correlation to structure property relationships.

Process Capable Tolerancing May 21, \$700

The statistical concepts behind the process capability index, Cpk, and its importance to the engineers and designers will be explained in layman's terms.

Process Validation for Medical Injection Molding June 21–22, \$1,195

The class provides classroom and hands-on applications of process development, quality assurance, and process validation techniques and principles.

Thermoplastic Materials and Testing August 7–8, \$1,195

This course provides a comprehensive understanding of the common ASTM tests found on a standard material data sheet. The workshop is designed to familiarize students with many of the actual tests through a hands-on lab portion that points out the strengths and weaknesses of the individual tests.

Penn State Injection Molding Certificate

This certificate series provides the plastics industry with process technicians and engineers with a solid understanding of the correct methods to use when setting up injection molding processes. The workshops have a heavy emphasis on hands-on training through applying principles learned in the classroom. Penn State Behrend's Plastics Engineering Technology program, considered one of the best university-based injection molding programs in the country, will be used intensively for the hands-on portions.

Level I

April 30-May 5, July 11-16, \$1,695

Level II

May 14-19, \$1,895

Level III

June 4-9, \$2,395





2012 Workshops and Seminars

Are your plastics processes the best they can be?

From injection molding principles to material selection and troubleshooting, your processes can be improved through workshops and seminars offered by the Plastics Training Academy at Penn State Behrend. Our industry experts bring their real-world knowledge to you in a hands-on experience that replicates every facet of today's plastics design and manufacturing processes, improving your bottom line.

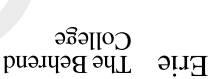
PENN STATE



Erie The Behrend College



PENN STATE
Erie, PA 16563
4213 Station Road
Logan Carriage House
Continuing Education



Erie The Behrend College

The Plastics Training Academy at Penn State Behrend, in northwestern Pennsylvania, offers workshops and seminars developed to meet the plastics industry's twenty-first-century, skill-building needs.

Save training dollars: Many of the programs can be delivered on-site at your facility, for groups of eight or more, and can be tailored to meet your company's specific needs and production schedule. New programs can also be custom-designed for your organization, at our facility or yours. Contact our Continuing Education office to discuss your specific needs at 814-898-6103.

For more information or to register

Visit: behrend.psu.edu/plastics

Call: 814-898-6103

E-mail: plasticstraining@psu.edu

Refunds

Refunds will be made for cancellations received eight business days before a workshop's start date. Anyone who is registered but cannot attend may send a substitute to that particular workshop.

Cancellation policy

The University may cancel or postpone any course or activity because of insufficient enrollment or other unforeseen circumstances. If a program is canceled or postponed, the University will refund the registration fee but cannot be held responsible for any other related costs, charges, or expenses, including cancellation/change charges assessed by airlines or travel agencies.

This publication is available in alternative media on request. Penn State encourages qualified persons with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodations or have questions about the physical access provided, please contact 814-898-6103 in advance of your participation. Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce. U-Ed. EBO 12-109

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