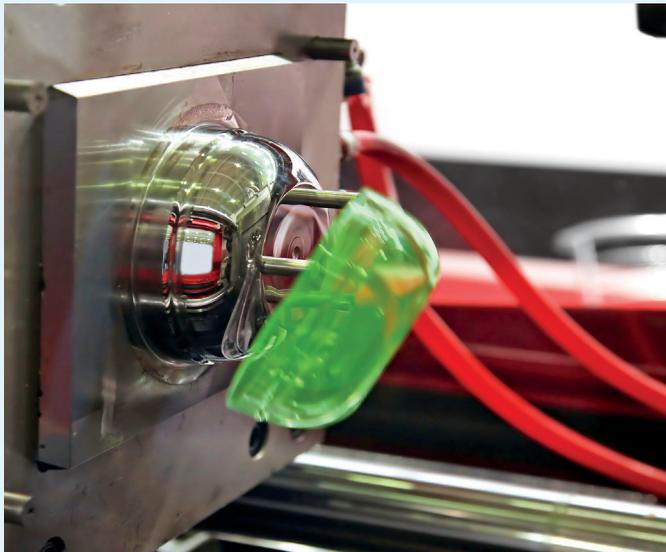


# PROFESSIONAL DEVELOPMENT



Pennsylvania  
College of Technology  
A Penn State Affiliate

# PLASTICS PROCESS TRAINING



## Equipping employees with essential skills and knowledge

to become a safe and productive contributor in a plastics manufacturing environment is critical to company success. Plastics manufacturers face the same skilled worker challenges, often on a larger scale, as employers across many sectors of today's economy.

Overcome your skills gap challenges using online, self-paced training from Pennsylvania College of Technology. As one of only six ABET-accredited plastics programs in the country, Penn College has been the leader in plastics education and training for decades. Let our expertise help your employees on the journey to become pros with the help of our Plastics Process Training.

- ◆ Built by a team of premiere thought leaders and industry experts
- ◆ Self-paced training on-demand to meet any circumstance
- ◆ An ideal jump start to a comprehensive training program or apprenticeship
- ◆ Essential knowledge for operators and technicians



## PRICING

Includes one year of unlimited access to all modules

Company packages

◆ Up to 25 - \$9,900

◆ Up to 50 - \$14,900

◆ Up to 100 - \$19,900

Individual Subscription - \$990

# PLASTICS PROCESS TRAINING



# PLASTIC PROCESS TRAINING

Training is focused on Injection Molding.

## Safety

- ◇ Workplace Hazards
- ◇ PPE
- ◇ Emergency Procedures
- ◇ Lockout/Tagout
- ◇ Machine Guarding
- ◇ Housekeeping
- ◇ Best Practices

## Plastic Behavior & Polymer Structure

- ◇ Introduction to Plastics and Polymers
- ◇ Definitions and Terminology
- ◇ Polymer Structure
- ◇ Molecular Weight
- ◇ Plastics
- ◇ Thermoset & Thermoplastic Polymers
- ◇ Amorphous & Semi-Crystalline Polymers
- ◇ Rheological Testing & Equipment
- ◇ Phases of Matter
- ◇ Plastic Processing Variables
- ◇ Plastics Flow Path
- ◇ Finished Injection Molded Parts
- ◇ Internal Part Stress

## Production Process Overview

- ◇ Process Definitions
- ◇ Materials
- ◇ Finished Parts
- ◇ Process Flow
- ◇ Machine Parts & Functions
- ◇ Screw Purpose & Operation
- ◇ Injection Nozzle & Sprue Bushing
- ◇ Injection Mold
- ◇ Ejector System
- ◇ Associated Equipment & Tools
- ◇ Tools & Measurement Devices
- ◇ Analysis Equipment
- ◇ Process Outputs

## Machine Operation Overview

- ◇ Pre-Start
- ◇ Startup
- ◇ Machine Operation Modes
- ◇ BOWA Procedure
- ◇ Material Change-Purge Procedures
- ◇ Cycle Testing
- ◇ Shutdown
- ◇ Maintenance

## Machine Controls & Troubleshooting

- ◇ Machine Control Panel & Operation Modes
- ◇ Common Machine Controls
- ◇ Machine Control Setting Fundamentals
- ◇ Machine Operation Best Practices
- ◇ Troubleshooting & Quality Control
- ◇ Controlling Finished Part Quality

[pct.edu/workforce](https://pct.edu/workforce)

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570.327.4775

*Penn College operates on a nondiscriminatory basis.*

Penn College is approved by the PA Department of Labor & Industry as a sponsor of apprenticeship programs.