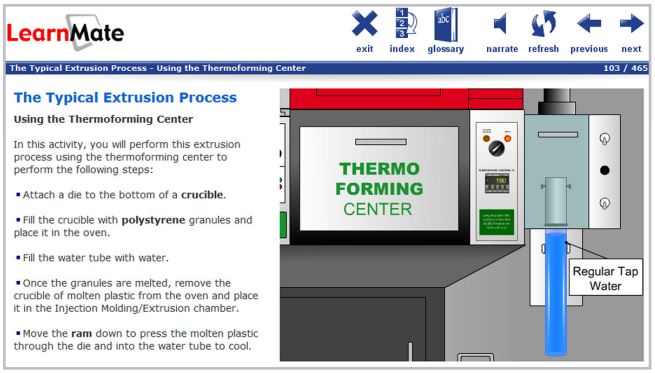
Plastic Technology: Thermoforming Center

Students work with the Thermoforming Center, a mobile and compact training unit that emulates the kinds of plastic thermoforming performed in industrial environments. Students gain practical experience in six different plastic forming processes:

- Vacuum Forming
- Free Dome Blowing
- Plastic Welding
- Plastic Dip Coating
- Injection Molding
- Extrusion



Course Information

Type	Virtual, Lab
Units of measurement	Imperial; Metric
Languages	English
Hours of instruction	12

Course Outline

- Introduction to Plastics
- Polymers
- Thermoforming and Safety
- Thermoforming Hardware
- Extrusion and Polystyrene
- Injection Molding and Polyethylene
- Polypropylene and Plastic Welding
- Methods of Plastic Welding
- Vacuum Forming and Twin Sheet Forming
- Vacuum Forming
- Cast Acrylic and PVC
- Dome Blowing
- Nylon and Dip Coating
- Dip Coating
- The Plastics Industry
- Plastic Recycling and Resource Conservation

Lab Hardware Includes

Polystyrene Sheet 12" x 12" 20 pack	10-9401-0000
Polystyrene Sheet 12" x 6" 20 pack	10-9402-0000
Cast Acrylic Sheet 8" x 8" (2 pack)	10-9403-0000
Cast Acrylic Sheet 11" x 11" (2 pack)	10-9404-0000
Cast Acrylic Sheet 14" x 14" (2 pack)	10-9405-0000
Polypropylene Sheet 7"x 3" (25 Pack)	10-9406-0000
Polypropylene Rod 3mm, 2 LBS	10-9407-0000
Polystyrene Granules 6 LBS	10-9408-0000
Nylon Powder 4 LBS (injection molding)	10-9409-0000
Polyethylene Powder, 4 LBS	10-9411-0000

Plastic Technology includes LearnMate®, Intelitek's innovative e-learning platform. Self-paced interactive LearnMate content may be deployed stand-alone or through the robust learning management system (LMS). The LearnMate e-learning suite provides everything needed for the ultimate blended learning experience:

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national academic skill standards

Ordering Information

Curriculum

Plastic Technology: Thermoforming Center LearnMate course, Lab & Virtual	77-8057-0000

Bundles

Plastic Technology includes curriculum and hardware	TF-8057-1000

Hardware

Thermoforming Center	700428

Contact Us:

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