


# Plastics Technology 2 eLearning Blow Molding Design & Extrusion Operations | Multimedia Courseware

Introduction to Blow Molding Operations - WX11306-XC04XEN-E3

Objective 3: Describe Eight Safety Rules to Follow around a Blow Molding Machine

Eight Safety Rules to Follow

Never Handle a Plastics Part without Gloves



Molding safety rule

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The plastics part will maintain a high temperature for several minutes following the molding operation.

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## Blow Molding Design & Extrusion Operations: MB768

Amatrol's Plastics Technology 2 eLearning introduces blow molding operations, basic blow molding design, and introduces extrusion operations. To introduce blow molding operations topic will cover blow molding process, blow molding safety and operations, and blow molding troubleshooting. Basics in blow molding design will introduce blow molds design, materials, and advanced design. To introduce extrusion operations topics will include extrusion process, extrusion safety and operation, and extrusion troubleshooting.

### Teach Hands-On Skills

#### What are the Two Types of Blow Molding Processes?

Blow molding is the process of creating a hollow object from a thermoplastics material. Examples of parts made from blow molding are plastic drink bottles, milk jugs, and squeeze toys. There are two common methods of blow molding that are generally used: extrusion and injection blow molding.

- **Extrusion Blow Molding** - Extrusion blow molding is the process of extruding a hollow tube of plastics. This hollow tube is called a parison. The parison is extruded between the two open halves of the mold. The mold is then clamped around the parison.
- **Injection Blow Molding** - The injection blow molding process uses an injection molding process to form a hollow tube. This hollow tube is called a preform. The preform is then clamped into a blow mold and air is injected. Although this method uses two molds, its advantages are that it is easier to create accurate wall thicknesses and less scrap is generated because the preform does not extend below the blow mold.

### Plastics Technology eLearning Features Interactive Multimedia

Amatrol's extensive, thorough multimedia covers materials such as plastics. Interactive screens paired with instructive graphics teach an array of plastics technology topics from basic blow molding design to extrusion operations. With the optional hardware, learners can then apply this theoretical knowledge to immediate hands-on skills. For example, learners study blow molding trouble shooting and then perform a weld strength test on a blow molded part for practice. This combination of theory and practice ingrains concepts in a learner's mind and makes more advanced topics easier to comprehend. (References [96-PLS2](#))

## **Additional Info**

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- **Additional Requirements**

- Computer: [See requirements](#)

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