

# Basic Injections and Molding Operations Training | Multimedia Courseware

Advanced Injection Mold Design - WX11304-AB02XEN-E1

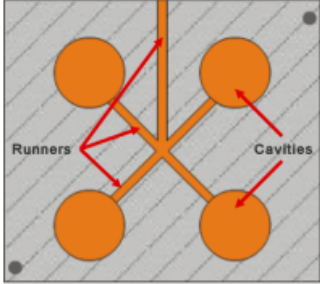
Objective 7: Describe the Function of Balanced and Unbalanced Multi-Cavity Molds and Give an Application of Each

**Balanced Cavity Molds**

Multi-cavity molds may be balanced or unbalanced.

Balanced multi-cavity molds are used when the same part is being made in each cavity, and the cavities are laid out in a symmetrical pattern.

This allows the plastics to flow at an even rate into all of the cavities.



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## Basic Injections and Molding Operations: MB767

Plastics Technology 1 eLearning will introduce injection molding operations, basic injections mold design, and advanced injection molding. Topics explored are injection molding process, material and machine safety in molding, molding operations, problems and solutions. Basic injection mold designs are described and covers injection mold sprues, runner systems, injection mold gates, part design; shrinkage and warpage, and injection mold vents. Advancing in injection molding will explore inserts in injection molds, threads and multiple-part molds, integral hinges, and system purging.

### Teach Hands-On Skills

#### Plastics Technology 1 eLearning Features Engaging 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 mold design to advanced injection molding. With the optional hardware, learners can then apply this theoretical knowledge to immediate hands-on skills. For example, learners study the function of hinges on a plastics part and then mold their own part with an integral hinge 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-PLS1T](#))

### Additional Info

- **Additional Requirements**

- Computer: [See requirements](#)
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