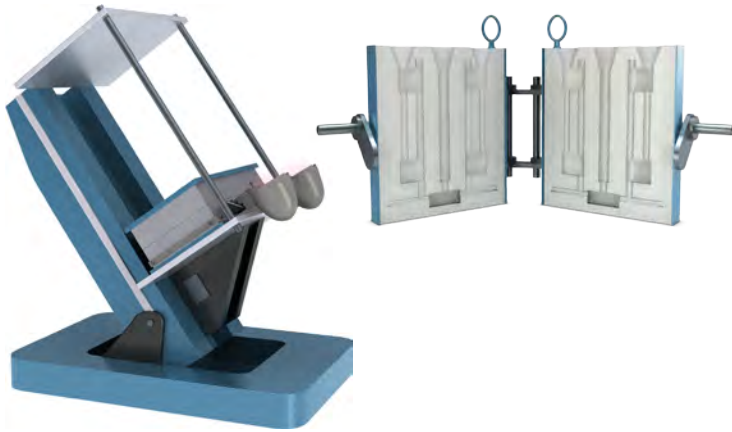


# GRAVITY DIE CASTING BASICS

*eLearning courses designed to increase productivity and profits*



## Learning made Simple, Visual, and Interactive

Gravity Die Casting Basics introduces the learner to casting manufacturing by gravity die casting. The course provides an overview of the static and tilt pouring processes and insights into operational control for producing sound castings. Presented in THORS' highly visual and interactive learning format, this course will help foundry employees become familiar with the important equipment processing steps associated with their profession.

Credit Hours **2**

## Learning Objectives

- Identify the components of the equipment and mold used in gravity die casting.
- Understand the processes involved in manufacturing castings by gravity die casting.
- Learn the operational parameters that are essential to gravity die casting.
- Diagnose the casting defects common to gravity die casting.
- Understand the nuances of controlling the operational parameters to produce defect-free castings.

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- Process Summary
- Machine Terminology
- Mold Terminology
- Alloys and Applications
- Die Fabrication
- Gravity Die Casting Methods
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  - o Tilt Pouring
    - Conventional Tilt Pouring
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- Advantages and Disadvantages

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- De-Coring
- Casting Ejection

### III. Casting Finishing and Evaluation

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- Casting Evaluation
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