

Introduction to Metalcasting Modules

The following modules are translated in Spanish, where available.

English	Spanish
<p>Big Picture of the Casting Process</p> <p>This module identifies the primary casting processes and post-casting production processes that occur in a metalcasting facility. By the end of this module, you will be able to define key industry terms; describe the major departments in a metalcasting facility; and chronologically, track a casting from the quotation process, through casting production to casting shipment. (0.2 CEU)</p>	<p>Panorama General del Proceso de Fundición</p> <p>En este módulo se identifican los procesos primarios y los procesos de producción posteriores al vaciado que se utilizan en una fundición de metales. Para el final del módulo, usted podrá definir los términos clave de la industria, describir los principales departamentos en una fundición de metales y realizar un seguimiento, de manera cronológica, desde el proceso de cotización, hasta la producción y el envío de partes vaciadas. (0,2 CEU)</p>
<p>Casting Design for Castability</p> <p>This module will focus on how to choose an appropriate casting process based on the complexity and manufacturability of a part. Topics will include defining the various casting processes available, tolerances, and the opportunity to complete a challenge. This module is designed for those who are involved in selecting, designing, and creating various types of molds and castings. By the end of this module, you will be able to choose a suitable casting process based on the complexity and manufacturability of a part. (0.1 CEU)</p>	
<p>Types of Casting Tooling</p> <p>This module will explore the different types tooling used in the metalcasting industry: permanent mold tooling, sand mold tooling, and investment pattern tooling. Common Tooling Department constraints will be described. By the end of this module, you will be able to identify and describe the types of tooling that are used with the major casting production processes. (0.1 CEU)</p>	
<p>Casting Material Properties</p> <p>This module will cover the following topics: heat flow and cooling rates, mold materials and methods, voids, and irregularities, and postcasting treatments. These topics affect the final mechanical properties of a casting. By the end of this module, you will be able to identify and describe a variety of production</p>	

characteristics that can influence the mechanical properties of a casting. (0.2 CEU)	
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