

Course Syllabus for:

Metalcasting Process Basics



Course Code 1-130	CEUs 0.3 CEUs
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Course Introduction

This course provides participants with a basic overview of the metalcasting process. The course will trace the path of a casting from quoting through shipping. This course covers common metalcasting terms and highlights the activities inside the major departments of a metalcasting production facility.

Learning Outcomes:

1. Define key industry terms.
2. Describe the major departments in a metalcasting facility.
3. Chronologically track a casting through the metalcasting facility from quoting to shipping.

Lesson Outline

- Module 1: Introduction
- Module 2: Metalcasting Terminology
 - Learning the Language
- Module 3: Primary Casting Production
 - Quoting
 - Tooling
 - Mold Preparation
 - Melting and Pouring
- Module 4: Post Casting Production
 - Casting Removal
 - Degating
 - Post Processing Methods
 - Inspection
 - Shipping
- Module 5: Conclusion

Instructional Methods:

- Facilitator-led discussion
- Group discussion
- Individual/Small group activities
- Q&A

Assessment Methods:

No formal assessment will take place in this course; however, attendees will participate in informal activities such as knowledge check and Q&A sessions with the facilitator to verify that learning outcomes are being met. Assessment of successful achievement of learning outcomes must be included throughout the course in order to meet the ANSI/IACET 1-2013 standard for continuing education programs and for CEUs to be awarded.

Course Prerequisites:

- None

Texts, Books or other Resources for Purchase:

- [AFS Metalcasting Dictionary, 2nd Edition](#)
- [Process of Metalcasting \(DVD\)](#)

Attendee Requirements to Earn CEUs:

1. Present at least 2.7 hrs of the total 3 hrs of instructional time (90%), which does not include lunch or breaks.
2. Active participation (can include asking questions, communicating with other attendees during and taking part in group activities, providing responses during whole class or group discussions).
3. Successful achievement of learning outcomes.

Who Should Attend?

The target audience for this course consists of individuals responsible for:

- Anyone new to the metalcasting industry