

CASTINGS: FOUNDRY CLEANING ROOM EQUIPMENT

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Learning made Simple, Visual, and Interactive

The Foundry Cleaning Room Equipment course gives foundry employees and other interested individuals basic knowledge of the tools and equipment most commonly used in foundry cleaning rooms to clean castings and remove excess metal.

Credit Hours **2**

Learning Objectives

- Identify the equipment and processes in a foundry cleaning room.
- Understand the principle of operation of the various tools and equipment used for the cleaning process.
- Understand the applications of the various tools and equipment used for the cleaning process.
- Classify the cleaning equipment and processes based on their mode of operation.
- Recognize the similarities and differences of the various cleaning processes.

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I. Excess Metal Removal

- **Knock-off Process**
 - o Sledgehammer
 - o Impact Gun
 - o Foundry Wedge
- **Cut-off Process**
 - o Angle Grinder
 - o Robotic Grinder
 - o Cut-off Saw
 - o Band Saw
 - o Oxy-Gas Torch
 - o Electric Arc Cutter
 - o Plasma Cutter
 - o Trim Press
- **Additional Metal Removal**

II. Surface Cleaning

- **Abrasive Media**
- **Tumbling**
 - o Batch-Type Tumble Blaster
 - o Continuous-Type Tumble Blaster
- **Blasting**
 - o Table Blaster
 - o Conveyor Belt Shot Blaster
 - o Spinner Hanger
 - o Blast Booth

III. Supplementary Cleaning

- **Chipping**
 - o Scaling Hammer
 - o Chipping Hammer: Operation
 - o Chipping Hammer: Chisel Types
 - o Chipping Hammer: Zip Gun
- **Grinding**
 - o Hand Grinder: Operation
 - o Hand Grinder: Attachment Types
 - o Stand Grinder
 - o Belt Sander

