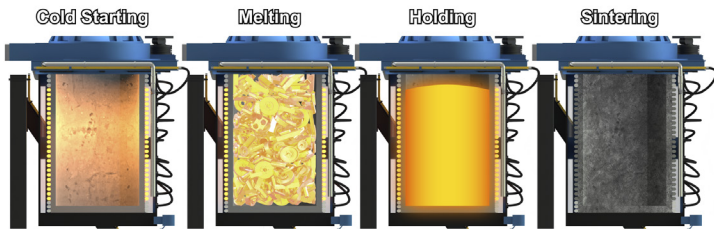


Induction Melting Furnace I

eLearning courses designed to increase productivity and profits



Learning made Simple, Visual, and Interactive

The THORS *Induction Melting Furnace I* course introduces the principles behind induction heating and melting, the important parts of induction furnaces, and the typical furnace modes of operation. Presented in our interactive Lightning Learning format, this course helps learners make visual connections with the various components and concepts involved in modern induction melting.

Credit Hours **1.5**

Learning Objectives

- Understand the basic function and advantages of an induction melting furnace.
- Identify the important components and systems of an induction melting furnace.
- Recall the basic induction melting furnace modes of operation, such as cold starting, melting, holding, and sintering.

Table of Contents

I. What Is Induction Melting?

- Overview of Induction Melting
- Inductance
- Induction Melting Furnace Advantages and Limitations

II. What Are the Components and Systems of an Induction Melting Furnace?

- Mechanical and Structural Components
- The Power Coil and Cooling Coil Systems
- The Flux Containment System

III. What Are the Induction Melting Furnace Modes of Operation?

- Cold Starting and Melting
- Holding and Sintering
- Induction Stirring and Mixing

