STEEL BASICS

eLearning courses designed to increase productivity and profits



Learning made Simple, Visual, and Interactive

This course is designed to provide learners with an introduction to the basic equipment and terminology associated with modern steelmaking shops.



Learning Objectives

- Recall the primary types of steel.
- Ø Recognize the basic forms in which steel is manufactured.
- $rac{1}{\sqrt{2}}$ Retain the processing steps required in the manufacturing of steel products.
- Differentiate between the important mechanical property tests applied to steel.
- \emptyset Determine the difference in the primary methods used for assigning steel grades.

Table of Contents

I. Steel Related Processes

- Chemical Composition
- Steel Production Processes
- Steel Metalworking Processes
- Post Processing Steps
- Types and Forms of Steel

II. Steel Properties

- Tensile Testing
- Hardness, Impact, and Hardenability Testing
- Additional Mechanical Properties
- Grain Size and Microcleanliness
- Steel Grading Systems

III. Steel Certificate Interpretation

- Customer Order
- Chemical Composition
- Mechanical Properties
- Additional Test Results
- Macro Etch Test
- Microcleanliness Rating
- Hardenability





