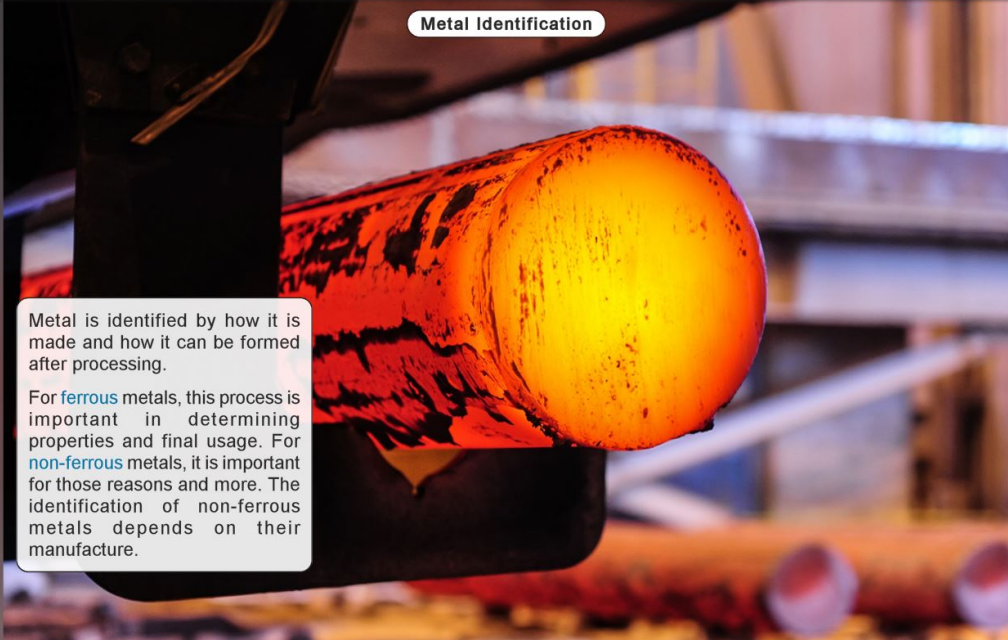


# Principles of Non-Ferrous Metals Training | Industrial Materials eLearning Course

Principles of Non-Ferrous Metals - WXML202-XX01XEN-E2

Objective 2: Describe the Steps Necessary to Prepare Non-Ferrous Metals for Commercial Purposes

Metal Identification



Metal is identified by how it is made and how it can be formed after processing.

For **ferrous** metals, this process is important in determining properties and final usage. For **non-ferrous** metals, it is important for those reasons and more. The identification of non-ferrous metals depends on their manufacture.

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## eLearning Course: MXML202

Amatrol's Principles of Non-Ferrous Materials - Non-Ferrous Metals eLearning course (MXML202) introduces the properties, elements, and types of non-ferrous materials commonly employed in metal manufacturing. This course covers the basics of the non-ferrous material manufacturing process and the elements used to create non-ferrous materials. Learners gain an understanding of the main types of non-ferrous materials, their properties, common tests used to measure metal properties, and how they are applied in industry.

## In-Depth Non-Ferrous Metals Curriculum

### What are Non-Ferrous Metals?

Although non-ferrous metal is everywhere in the workplace, most employees do not know much about it. After all, knowing the properties of non-ferrous metal may not be necessary for assembling a workpiece or driving a forklift, but non-ferrous metal is vital in the manufacturing world, and its importance is only growing.

As vehicles get more sophisticated, the amount of non-ferrous metal used in their construction is increasing. Metal is a material that exhibits properties such as heat or electrical conductivity and hardness. A manufactured metal's ingredients are mostly mined from ore within the earth. Metallurgy is the study of the properties, behavior, and structure of metals. Basically, it is the study of how to get the best use out of this material.

A non-ferrous metal is a metal in which the main element is not iron. Ferrous metals, on the other hand, consist primarily of iron. The non-ferrous metals that dominate the world of industry are aluminum and copper.

## **Interactive eLearning with Learning Management System**

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### **Highly-Interactive Multimedia Format Appeals to All Learning Styles**

Amatrol's non-ferrous metals eLearning course features interactive eLearning curriculum that integrates various types of learning methods to create an engaging, effective learning experience. Amatrol's multimedia [eLearning](#) curriculum includes text with voiceovers, videos, 3D animations, pictures, and interactive activities, quizzes, and self-reviews.

### **Free Learning Management System (LMS)**

Amatrol eLearning is easy-to-use for both students and instructors. Its web-based interface is simple to navigate and available on any WebGL-compatible Internet browser. Instructors love Amatrol eLearning for its simple, yet sophisticated Learning Management System (LMS). The LMS allows instructors to create custom courses, monitor student participation, track course progress, assess knowledge levels prior to a course, and test knowledge levels after completion. Learners appreciate the fact that they can start and stop as needed, moving through each Amatrol course at their own pace. If a self-review reveals that they didn't understand a particular topic as well as they thought they did, they can revisit it before moving on.

## **Additional Info**

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### **Requires:**

- Computer (see [Computer Requirements](#))

### **Options:**

- Amatrol SkillTrace Software (94-ST1)

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#### **Address**

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