

# Principles of Plastics Training | Industrial Materials eLearning Course

Principles Of Plastics - WXML204-XX01XEN-E1

Objective 21: Describe the ISO Nomenclature System for Plastics

Identifying Plastics Materials

 Polystyrene Click Here	 Polyurethane Click Here	 Polypropylene Click Here	 Polyvinyl Chloride Click Here
 Epoxy EP	 Polyethylene Click Here	 Low Density Polyethylene Click Here	 Silicone Click Here
 High Density Polyethylene Click Here	 Polyamide (Nylon) Click Here	 Expanded Polystyrene Click Here	 Polycarbonate Click Here

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## eLearning Course: MXML204

Amatrol's Principles of Plastics eLearning course (MXML204) introduces the properties, processes, skills, and concepts of working with plastics. These concepts include the importance of plastics, the two types of plastics and their specific characteristics, basic plastics-making processes, injection molding, blow molding, extrusion, post-manufacturing processes, plastics nomenclature and standards, and environmental considerations of the impact of plastics. This course encompasses knowledge needed in today's world of manufacturing processes and materials.

### In-Depth Plastics Curriculum

#### Plastics vs. Plastic | Why Are Plastics So Important?

Plastics and plastic. Many people think these two words mean the same thing - but they do not.

Plastics refers to a material, and is in a family of materials called polymers. Polymers are materials created from long strands of hydrocarbon molecules, which are organic materials consisting entirely of hydrogen and carbon. A molecule is the smallest particle into which a material can be broken down and still maintain the properties of the material. These hydrocarbons are typically obtained from petroleum but can also be obtained from plant and animal sources.

Approximately 4-percent of petroleum produced throughout the world is used to create plastics. Because plastics is one of the major uses of petroleum, most large oil refineries have a division of their company that processes raw plastics materials. The word 'plastics' should not be confused with the term 'plastic', which is used to describe the state of a material. The word 'plastic' is often used incorrectly to refer to plastics material and the plastics industry.

### Interactive eLearning with Learning Management System

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

Amatrol's principles of plastics 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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