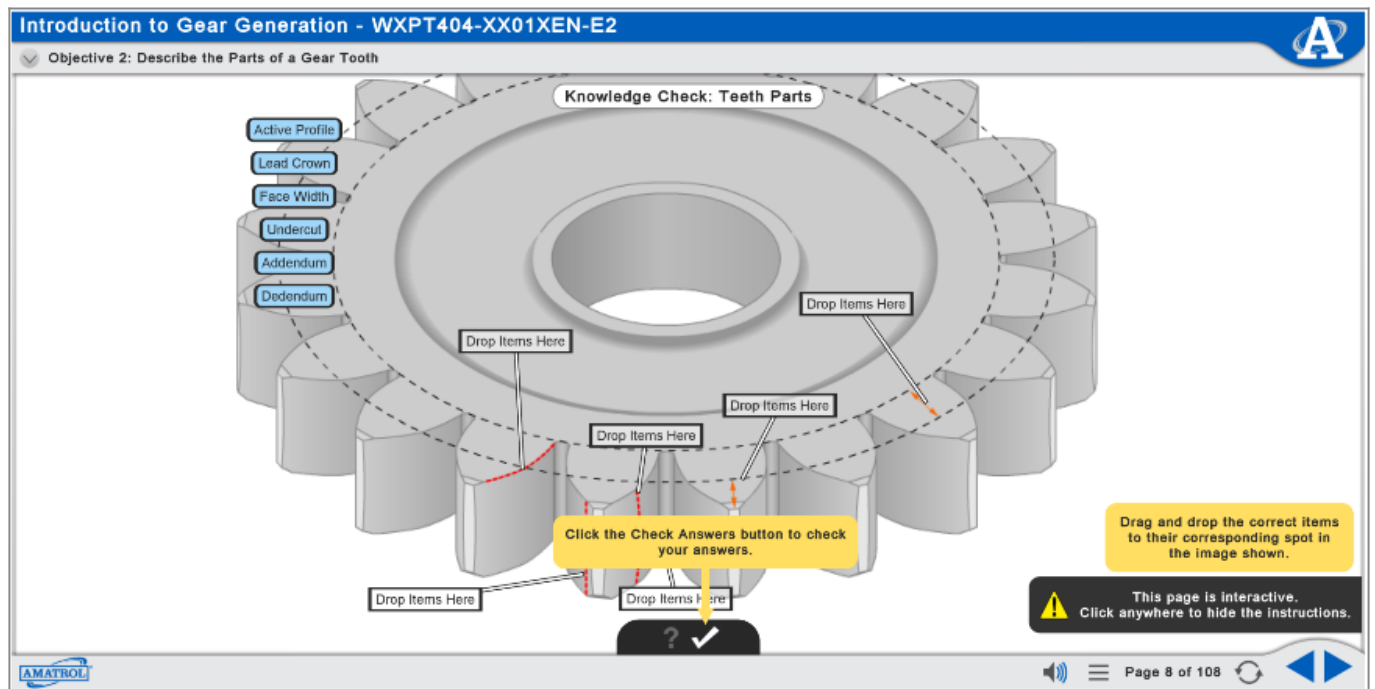


# Principles of Gear Manufacturing | Machining Interactive eLearning



## eLearning Course: MXPT404

Amatrol's Principles of Gear Manufacturing eLearning introduces the concepts, technology, terminology, and operations required to manufacture gears. This Machining Training course helps learners to gain an understanding of the fundamentals of gear design; the various manufacturing processes used to create a gear, including shaping, hobbing, grinding, and honing; and the tools and methods used for gear inspection.

## Principles of Gear Maintenance

### What is Gear Generation? How are Gear Size and Shape Determined?

A gear's basic properties are all part of its geometry, or shape. Knowing the correct term used to describe a specific component or feature of a gear allows everyone involved in the gear-making process to discuss any problems and reach effective solutions.

How and where a gear will be used determines the shape and size of the gear and its teeth. Because using a gear of the wrong shape or size can cause a finished product to fail, it is important to know and understand the terms used to design the size of a gear. These terms include: outside diameter, inside diameter, pitch diameter, diametral pitch, and circular pitch.

### Principles of Gear Manufacturing eLearning Features Multimedia Curriculum

Amatrol's peerless interactive multimedia curriculum utilizes text with voiceovers, pictures, videos, stunning 3D animations, and interactive quizzes and reviews that engage learners in theoretical knowledge and concepts. This thorough, detailed curriculum begins with the basics and advances to complex concepts. Through partnerships with key industry leaders and leading educators, Amatrol developed the right balance of knowledge to train learners to work in their chosen field.

## Additional Info

[Computer Requirements](#)

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