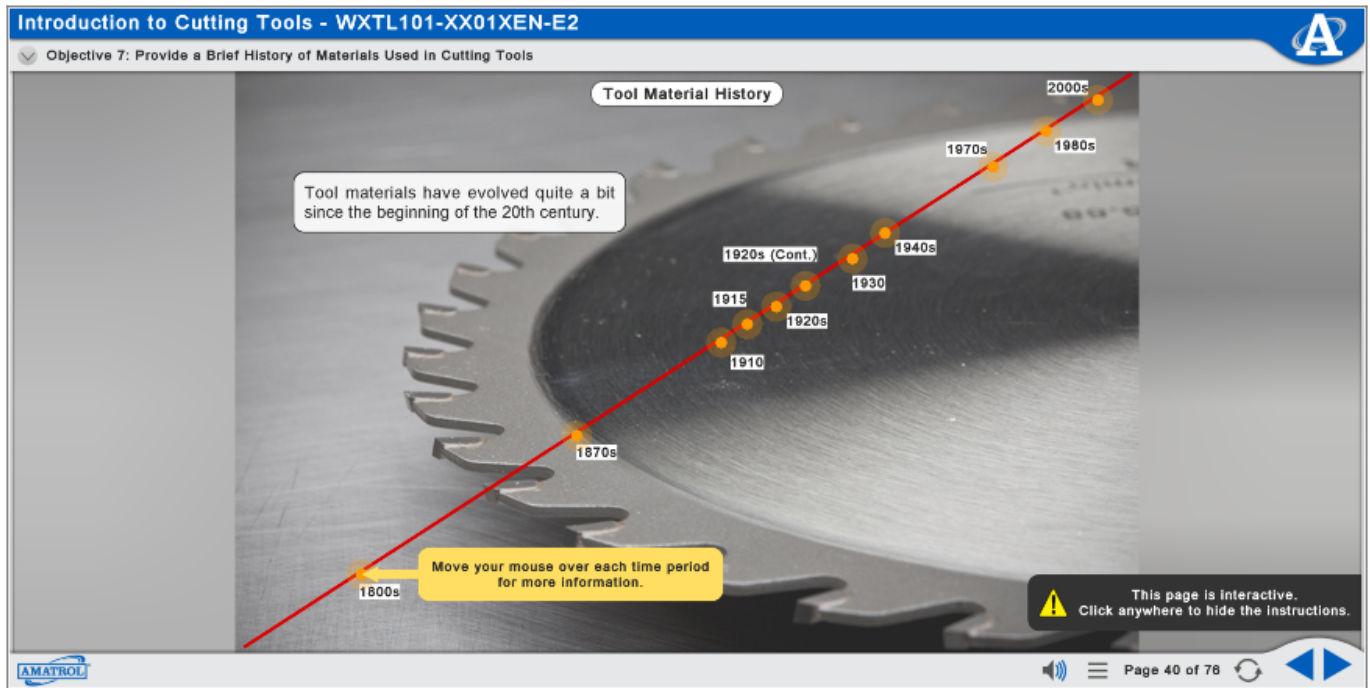


# Principles of Tooling | Machining Interactive eLearning



## eLearning Course: MXTL101

The Principles of Tooling eLearning course introduces the tools used for metal cutting on lathes and machining centers. Learners will review basic concepts in metal removal, tool materials and their properties, and tool selection and maintenance. Learners will study the major types of tools, cutting applications, materials and properties of tools, and the types and causes of tool defects.

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## Principles of Tooling

### What is Machining?

Machine tools, such as lathes or mills, create finished parts by cutting away small pieces of metal from a larger piece of metal, called a workpiece. This process is known as machining. The component of the machine tool that removes the metal is called the cutting tool. As the wedge-shaped tool comes in contact with the workpiece, it cuts away a thin layer of metal, called a chip. As a result, the machining process is often called chip making.

Companies that machine metal only make money when a cutting tool is operating. Time spent setting up the machine, changing broken or worn out tool, or any other task is costing the company money. Therefore, machining must be carried out as effectively and efficiently as possible.

### Principles of Tooling eLearning Features Multimedia Curriculum

Amatrol's unmatched multimedia utilizes text, audio, and stunning 3D animations that engage learners in theoretical knowledge and concepts. This thorough, exceptionally detailed curriculum is built to begin with the basics and steadily advance to more complex concepts. Through partnerships with key industry leaders and leading edge educators, Amatrol developed the right balance of knowledge needed to train learners to work in their chosen field.

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## Additional Info

[Computer Requirements](#)

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