

# Tooling for Tapping Training | Industrial Machining eLearning Course

Introduction to Tapping Tools - WXTL307-XX01XEN-E2

Objective 3: Describe Two Types of Holes

Drilled Holes

When choosing the best tap for a job, it is important to identify the type of hole being tapped.

There are two basic types of holes: through holes and blind holes.

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## eLearning Course: MXTL307

Amatrol's Tooling for Tapping eLearning course (MXTL307) teaches tapping tools used for metal cutting. This industrial machining training focuses on tapping terminology, types and properties, and applications. Major topics include: differentiating between the two kinds of holes; the impact of part design on tapping tool performance; interpreting tap nomenclature to determine thread size and quality; identifying the components of a tool holder assembly; and calculating how large to drill a hole for a cutting tap.

## In-Depth Tooling for Tapping Curriculum

### What is Tapping?

Tapping is the process of creating threads in a drilled hole designed to mate with a screw. A thread is a V-shaped groove cut into the sides of the hole. The groove forms a spiraling structure that converts rotational force (torque) into linear movement. As a screw rotates into a tapped hole (a nut, for example), the screw's threads move in a linear fashion.

The tools that perform tapping are commonly referred to as "taps". Each tap is designed to cut a specific thread size and pitch (the distance between threads). Although taps are available to cut many different threads, taps have several common components, such as square, shank, flute, thread, chamfer, and point.

## Interactive eLearning with Learning Management System

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

Amatrol's tooling for tapping 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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