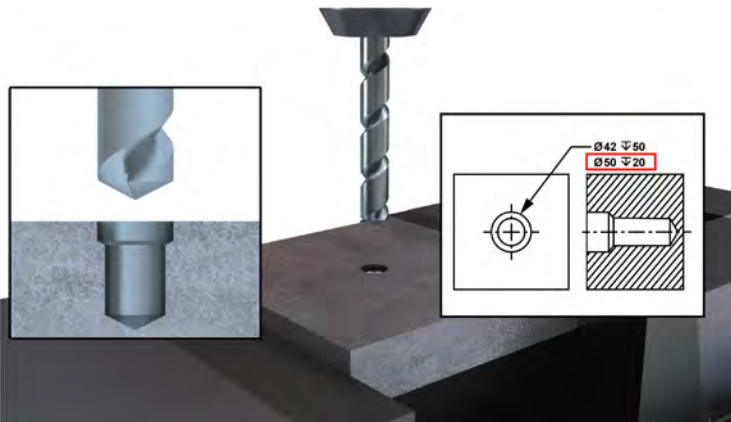


# MACHINING: HOLE PROCESS FUNDAMENTALS

*eLearning courses designed to increase productivity and profits*



## Learning made Simple, Visual, and Interactive

Presented in THORS' highly visual and interactive learning format, this course will help employees in machining industries become familiar with the important equipment and terminology associated with their profession.

Credit Hours **2.5**

## Learning Objectives

- Identify the main types of hole processes and their characteristics.
- Understand important terminology that relates to each hole process
- Identify cutting tools used to create various hole types.
- Identify and understand the tool-part relationship characteristics of various hole processes used in the industry.

## Table of Contents

### I. Basic Hole Processes

- Starter Hole Drilling
  - Spot Drilling
    - Cutting Tool/Tool-Part Relationship
  - Center Drilling
    - Cutting Tool/Tool-Part Relationship
  - Drilling
    - Cutting Tool/Tool-Part Relationship
  - Drilling Variations
    - Gun Drilling
      - Cutting Tool/Tool-Part Relationship
    - Peck Drilling
      - Cutting Tool/Tool-Part Relationship

### II. Hole Feature Processes

- Stepped Drilling
  - Countersinking
    - Cutting Tool/Tool-Part Relationship
  - Counterdrilling
    - Cutting Tool/Tool-Part Relationship
  - Counterboring
    - Cutting Tool/Tool-Part Relationship
  - Spotfacing
    - Cutting Tool/Tool-Part Relationship
  - Port Hole Drilling
    - Cutting Tool/Tool-Part Relationship
- Threading
  - Tapping
    - Cutting Tool/Tool-Part Relationship
  - Single-Point Threading
    - Cutting Tool/Tool-Part Relationship
  - Thread Milling
    - Cutting Tool/Tool-Part Relationship

### III. Additional Hole Processes

- Finishing Processes
  - Boring
    - Cutting Tool/Tool-Part Relationship
  - Reaming
    - Cutting Tool/Tool-Part Relationship
  - Honing
    - Cutting Tool/Tool-Part Relationship
- Unique Hole Processes
  - Core Drilling
    - Cutting Tool/Tool-Part Relationship
  - Trepanning
    - Cutting Tool/Tool-Part Relationship

