

MACHINING: SURFACE 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**

Learning Objectives

- 💡 Identify commonly specified surface features.
- 💡 Identify cutting tools used in conventional surface processes.
- 💡 Identify cutting media used in non-conventional surface processes.
- 💡 Identify forming tools used in metal displacement processes.
- 💡 Identify and understand the tool-part relationship characteristics of various types of surface processes used in the industry.

Table of Contents

I. Conventional Processes

- Turning
- Milling
- Grinding
- Broaching

II. Non-Conventional Processes

- Cutting Processes
 - o Electrical Discharge Machining
 - o Electrochemical Machining
 - o Laser Beam Machining
 - o Water Jet Machining
 - o Ultrasonic Machining

• Finishing Processes

- o Lapping
- o Superfinishing

III. Metal Displacement Processes

- Burnishing
- Stamping
- Spline Rolling
- Thread Rolling
- Knurl Rolling

