# SURFACE FINISH MEASUREMENT BASICS

### eLearning courses designed to increase productivity and profits



## Learning Made Simple, Visual, and Interactive

The THORS *Surface Finish Measurement Basics* course introduces the learner to the types of measurement of surface finish. This course also covers various surface finish parameters, exploring their interpretation and significance. Presented in THORS' highly visual and interactive learning format, this course will equip the learner with a foundational knowledge of surface finish measurement.

Credit Hours 2

### **Learning Objectives**

- Ø Understand the terminology associated with surface finish.
- Ø Define the various surface finish parameters and their significance.
- Output the different ways of representing surface finish on engineering drawings.
- Ø Distinguish the different types of surface finish measurement techniques.
- Interpret the various surface finish parameters.

### **Table of Contents**

#### I. Terminology

- Profile
  - Primary Profile
    - Periodic Profile
  - Nonperiodic Profile Filtering
  - Burface Einis
- Surface Finish Parameters
  Amplitude Surface Finish Parameters
  - Spacing Surface Finish Parameters
- Surface Finish Symbols
- Surface Finish Representation Basic Representation
  - Detailed Representation

#### **II. Measurement and Interpretation**

- Qualitative Measurement
  Surface Finish Master
  Measurement Process
- Quantitative Measurement
  - Contact-Type Measurement
    - Components
    - Measurement Process
    - Advantages and Limitations
  - Noncontact-Type Measurement

## II. Measurement and Interpretation (continued)

- Interpretation of Surface Finish Parameters
  - Amplitude Surface Finish Parameters
    - Ra
    - Rq
    - Rmax
    - Rz
  - Surface Surface Finish Parameters
    RSm
    - RPc
    - RHSC





THORS is bringing together the best minds across many industries to create an everexpanding library of courses that will rapidly increase the Manufacturing IQ<sup>®</sup> of your team. sales@thors.com 1 (330) 576 4448

© 2025 THORS LLC

....