



Metrology

1-Day Curriculum for Metrology - Gages and Inspection Equipment (ASTM B46)

Objective:

To provide an understanding of metrology principles, focusing on gages and inspection equipment per ASTM B46.

Welcome and Introduction (15 minutes)

- Overview of objectives and ASTM B46.

Fundamentals of Metrology (40 minutes)

- Basics of measurement, accuracy, and traceability.

Break (10 minutes)

Types of Gages and Equipment (50 minutes)

- Overview of common gages and surface roughness tools.
- Demonstration of basic gages.

Lunch Break (30 minutes)

Measurement Techniques (50 minutes)

- Techniques for measuring linear, angular, and surface roughness.
- Hands-on exercises.

Break (10 minutes)

Interpreting Measurement Data (50 minutes)

- Analyzing results, understanding uncertainty.
- Group exercise on data interpretation.

Wrap-Up and Q&A (20 minutes)

- Summary, open Q&A, and next steps.

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