

# Mechanical Measurement & Quality Control

Available as a virtual course or with lab hardware, Mechanical Measurement and Quality Control delivers a solid foundation in precision measuring principles and statistical analysis. Students learn to use precision measurement tools, read mechanical drawings, select the proper tools for inspecting parts, collect data on a sample and prepare quality/inspection reports.

## Course Information

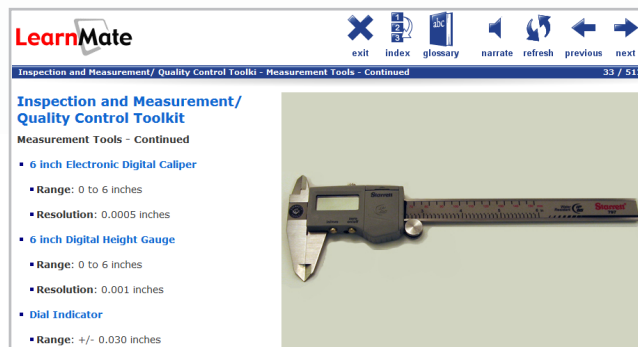
Type	Virtual, Lab
Languages	English
Units of measurement	Imperial; Metric
Hours of instruction	15

## Course Outline

- Accuracy, Precision & Measurement Tools
- Units of Measurement and Conversion
- Fractions, Decimals, and Rounding
- Scaled Measurement Tools
- Vernier, Dial, and Digital Calipers
- Micrometers
- Height Gauges and Dial Indicators
- Fixed Gauges
- Transfer Measurement Tools
- Statistical Analysis
- Statistical Process Control
- Nominal Dimensions and Tolerance
- Parts Inspection and Inspection Reports

## Optional Hardware

- Precision Measurement Tools Kit:
  - ◇ Multiple rulers
  - ◇ Tape measure
  - ◇ Dial caliper
  - ◇ Electronic digital caliper
  - ◇ Micrometer
  - ◇ Feeler gauge set
  - ◇ Inside & outside calipers
  - ◇ Dial indicator & attachments
  - ◇ Height gauge
  - ◇ Protractor
  - ◇ 5 piece gauge block set
  - ◇ Educational Charts & Cards
  - ◇ Educational booklets
  - ◇ Granite surface plate
  - ◇ 12 plug gauge pins
  - ◇ Vernier caliper
  - ◇ Ground-slotted angle plate
  - ◇ Cable and adapter & a carrying case
- Tools and Rules for Precision Measurement Booklet
- Tool Usage Educational Charts
- Inch/Metric Tap Drill Sizes and Decimal Equivalents
- Wall Chart
- Inch/Metric Tap Drill Sizes and Decimal Equivalents Card
- Millimeter/Inch Equivalents Card
- Spread Sheet Software



## Foundations Skills Program

Foundation Skills courses deliver essential skills for technical careers, along with 21st Century skills like critical thinking, problem solving and collaboration skills.

- Foundations courses are 100% virtual on-line courses delivered through LearnMate, accessible anywhere, anytime.
- Some courses have optional hardware available

Mechanical Measurement and Quality Control includes LearnMate®, Intelitek's innovative e-learning platform. Self-paced interactive LearnMate content may be deployed stand-alone or through the robust learning management system (LMS). The LearnMate e-learning suite provides everything needed for the ultimate blended learning experience:

SCORM-compliant interactive content

- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national academic skill standards

## Ordering Information

### Curriculum

Mechanical Measurement and Quality Control, LearnMate course, Lab & Virtual

Imperial	77-8014-0001
Metric	77-8014-0002
Optional Hardware Package for MMQC lab	10-9410-0000

### Bundles

Foundations Skills	JM-FOUN-SKILS
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Contact Us: