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

<table>
<thead>
<tr>
<th>Type</th>
<th>Virtual, Lab</th>
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<tbody>
<tr>
<td>Languages</td>
<td>English</td>
</tr>
<tr>
<td>Units of measurement</td>
<td>Imperial; Metric</td>
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<tr>
<td>Hours of instruction</td>
<td>15</td>
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</tbody>
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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
- 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
- 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

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

Contact Us:

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