

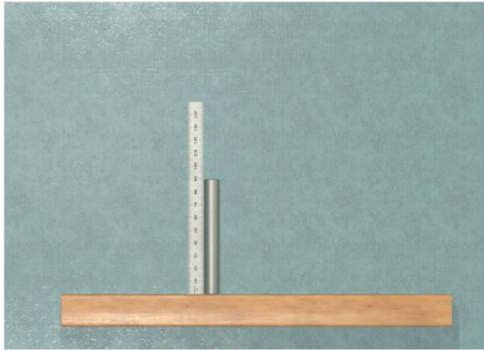
Portable Precision Gauging 1 | eLearning Course

Basic Measurement - V11145-XA01XEN-E1


Skill 1: Use a Metric Machinist's Rule to Measure an Outside Length of a Part

Step-by-Step Instructions

In this procedure, you will use a metric machinist's rule to measure a variety of flat and round parts. This will help you develop your skill in reading metric machinist's rules.



Simulator



990-PG1 Portable Precision Gauging 1 Workstation

AMATROL

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eLearning Course: M11145

Measurement is a cornerstone of all technical career paths and a major part of quality assurance. This course covers basic measurement, precision measurement, direct gauging, indirect gauging, and dimensional measurements using both the U.S. customary system and the SI metric system.

Teach Measurement & Gauging

In-Depth, Comprehensive Precision Gauging Curriculum Connected to Real-World Skills

Amatrol's eLearning curriculum is unique in that it thoughtfully combines in-depth theoretical knowledge with practical, hands-on skills. This powerful combination of knowledge and skills solidifies understanding and creates a strong foundation for pursuing more advanced skills.

For example, the precision gauging eLearning course covers important topics, such as:

Basic Measurement

Learners begin with an introduction into basic measurement, including SI Measurement, US Customary Measurement, and measurement conversion. Individual lessons focus on two systems of dimensional measurements, function and construction of a machinist's rule, measurement accuracy, and how to convert measurement between US Customary System and the SI Metric System. Learners will also practice skills, such as using a metric machinist's rule to measure objects, using a rule graduated in common fractions of an inch to measure a length, and converting between US Customary Units and SI Metric Units.

Precision Measurement

Using Amatrol's precision measurement eLearning course, learners will study dial and digital calipers, and US Customary and SI Metric micrometers. Individual lessons focus on the function and use of a dial/digital caliper, function of a micrometer, and how to use an inside/outside micrometer. Learners will also practice skills, such as calibrating both a dial and digital caliper, using calipers to measure both an inside/outside dimension of a part, and using an outside micrometer graduated in both US Customary Units and Metric Units to measure the outside dimension of a part.

Dimensional Gauging

In this module, learners will study various aspects and components of dimensional gauging, including introduction to gauging, indicator measurement, go no-go gauging tools, and indicator-type gauging tools. Individual lessons focus on two methods of gauging, function of a gauge block, operation of a plug and thread plug gauge, and operation of a bore, depth, and snap gauge. Learners will also practice skills, such as mastering a dial indicator; using a plug, thread and step pin gauge; and using a bore, depth and snap gauge.

Interactive eLearning

Highly-Interactive Multimedia Format Appeals to All Learning Styles

Amatrol's Precision Gauging eLearning course curriculum features a highly-interactive multimedia format. Stunning 3D animations, videos, pictures, voiceovers of all text, and interactive quizzes and exercises bring learning to life. Amatrol's multimedia curriculum contains elements that will appeal to every learning style, keeping learners motivated and engaged.

Anytime, Anywhere Access Promotes Self-Paced Learning

In today's fast-paced, technology-driven world, it's more important than ever to extend the reach of industrial skill training beyond the borders of traditional classrooms. Amatrol's eLearning meets the challenge for flexibility by offering in-depth, comprehensive technical skills training via an intuitive, easy-to-use web-based Learning Management System (LMS).

With anytime, anywhere online access, Amatrol's eLearning allows learners to set their own pace at home, on the job, in a traditional class setting, or a blended approach of these options. Click here to learn more about [Amatrol's eLearning and LMS](#).

Additional Info

Requires:

- Computer ([see Computer Requirements](#))

Options:

- Portable Precision Gauging Learning System (990-PG1)
- Snap Gauge (99-PG2)

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