Precision Measuring Instruments

OEM: Rockwell Automation • Duration: 2 Days (16 hrs) • Code: MUS-105

COURSE MODULES & TOPICS

Objectives

- Explain the purpose of precision measurement
- List and discuss the terminology as it applies to precision measurement
- Discuss the factors that affect measurement
- Identify and demonstrate the proper use and application of precision measuring instruments
- Apply and measure torque to fasteners

Student Materials

- Student Manual includes the key concepts, definitions, examples, and activities presented in this course
- Lab Guide includes the hands-on exercises

Next Level Learning

- Rigging course (MUS-205)

Course Agenda

Day 1

- Defining Applicable Terminology
- Specifying Accuracy and Tolerances
- Utilizing Standards
- Using Sensors and Transducers
- Applying Proper Vernier Scale Use
- Using Dial Calipers
- Using Micrometers

Day 2

- Using Mechanical Indicators
- Explaining Torque Theory
- Identifying Proper Torque Values
- Using Torque Wrenches and Extensions

- Applying Torque Techniques
- Using Hand Tools
- Using Portable Power Tools
- Review
- Written Exam