

# Measurement Systems Analysis Course Objectives

In this course, you will learn the techniques for analyzing the variation contained within a measurement system itself. After completing this course, you should be able to:

- Know the common sources of measurement system variation.
- Understand both Type A and Type B evaluations of measurement uncertainty.
- Use both graphical and mathematical techniques to evaluate gage or instrument linearity and stability, and initiate action to address linearity or stability issues.
- Know how to plan and conduct a GR&R study.
- Perform R&R analysis for non-destructive measurements, for destructive measurements, and for attribute measurements.
- Use ANOVA and graphical techniques for the R&R analysis.
- Use the GR&R data to initiate action to improve the measurement device's repeatability and reproducibility.