



# Measurement Systems Analysis (MSA)

*August 6-7, 2026 (8:30am – 12:30pm)*

## **Overview:**

The Measurement Systems Analysis and Gage R&R class demonstrates the need for measurement systems analysis. For quantitative measurement systems, it covers precision, accuracy, repeatability, reproducibility, and traceability. For attribute measurement systems, it covers Type I error, Type II error, and appraiser agreement with standard. This workshop will be presented in two, half day, instructor-led, online training sessions.

## **How You Will Benefit:**

Upon completion of this course, participants will be able to:

- *State why it is important to quantify measurement variation*
- *Recognize the impact measurement variation has on process data analysis*
- *Know the concepts and terminology of measurement systems analysis*
- *Perform Gage R&R and Gage Bias Studies for quantitative measurement systems.*
- *Perform Attribute Gage studies with and without standards.*
- *Understand what factors to investigate to reduce measurement system variation.*
- *Use native Excel to perform measurement system analyses.*

## **Who Should Attend:**

Engineers, and other people in inspection & test, quality assurance, manufacturing, engineering, or related disciplines responsible for their organization's measurement systems.

## **Course Prerequisites:**

A laptop computer is required. Microsoft Excel with the Analysis ToolPak add-in is required. Some familiarity with Basic Statistics is helpful.

## **Instructor:**

**Don Bartlett** has over 27 years of experience in Quality, Operations, and General Management at both tactical and leadership levels. Starting his career in with a passion for the power and results of statistical quality tools, followed by certifications as an ASQ Manager of Quality & Operational Excellence, Quality Auditor, and Quality Engineer, Don's passion grew into Quality and Operational Management Systems and implementing systems so that they impact company business results. Don is an ISO-9001 and IATF 16949 Lead Auditor who also works for a major 3rd party registrar, and he holds a Bachelor of Science in Business Administration and Master of Science in Economics.

## **Course Fees**

Your cost for this instructor-led, on-line training workshop, including a comprehensive digital workbook and handouts is \$360.00 per person .

**For more information or to reserve your place, please contact ETI Group**

**Tel: 425-971-2990 or 503-484-5979**

**Email: [info@etigroupusa.com](mailto:info@etigroupusa.com) – Website: [www.etigroupusa.com](http://www.etigroupusa.com)**