

## 11E - Gauge R & R Analysis Workshop

### **Presenter**

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### **Session Summary**

This workshop is designed to help you understand the measurement system methodologies, including the measurement process, variation, MSA studies and improvement of measurement systems. The topics include:

- Measurement process
- Variation-bias, repeatability, reproducibility, stability, and linearity
- Capability studies using variable data
- Gage study, variable, and attribute

### **About the Presenter – Jim Whitman**

**Jim Whitman**, Senior Consultant Quality & Productivity Solutions, Inc. Jim graduated *Summa Cum Laude* and *Phi Beta Kappa* from Ohio Wesleyan University, and holds a Masters Degree in Physics from Ohio State University. He spent his entire career with Raytheon Company as a Microwave Design Engineer, Production Engineer, Project Manager, and finally as a Six Sigma Black Belt. Jim was an instructor for Raytheon's Black and Green Belt in-house programs. He has also taught statistics at Quinsigamond College in Worcester, MA. Jim is an ASQ certified CQE and CQA, and has taught both courses for the ASQ Worcester Section. He has authored or co-authored papers on Gauge R&R, the Design of Experiments, and on Innovation. During his career at Raytheon and his subsequent retirement, Jim assisted major program offices, engineering organizations, schools and service organizations with the implementation of Goal Deployment/Balanced Score Card methodology.