



Measurement Systems Analysis (MSA)

... for Technicians, Engineers, Managers & Continuous Improvement Practitioners

Throughout the instructional process, candidates discover how to apply measurement systems concepts in a scientific manner for solving critical manufacturing, engineering, service, administrative, and business process problems. The focus is on the in-depth understanding and application of measurement systems analysis.

Course Curriculum:

All data are subject to various sources of process and measurement variation. The first step in process improvement is the quantification of Measurement System Errors. In this course, learn how to perform Measurement Systems Analysis (MSA). Through MSA the sources of measurement variation may be quantified and prioritized for continuous Improvement.

This important course will enable you to walk away with an in-depth understanding of:

- ▲ Measurement System Terms and Definitions
- ▲ The Effects of Measurement System Variability on Process Decisions
- ▲ Types of Measurement System Variation
- ▲ Preparation for a Measurement System Study
- ▲ Measurement Systems Acceptability Criteria
- ▲ Variables Measurement System Study
 - ▶ Repeatability
 - ▶ Reproducibility
 - ▶ Appraiser Repeatability Analysis
 - ▶ Measurement System Discrimination
 - ▶ Interaction Effects
- ▲ Attribute Measurement Systems Study (Attribute Agreement Analysis)

Highlights and Outcomes:

- ▲ Perform Measurement Systems Analysis for both variable and attribute data
- ▲ Interpret findings and suggest areas for improvement in the system of measurement

Course Materials:

All materials are easy to follow, user friendly, and have been knowledgeably prepared to communicate a complete understanding of the methods used in measurement systems analysis. These materials will be a valuable reference in your future endeavors.

Participant's shall receive a Certificate of Completion.

Registration:

If you wish to attend this Six Sigma course you may register online at www.tkmg.org/ContactUs. Please fill out the Contact Us form with your specific request and we will contact you to discuss payment options and confirm your registration.

Program Specifications:

- ▲ **Audience** - Technicians, Engineers, Managers, & Continuous Improvement Practitioners
- ▲ **Length** - 3 Days
- ▲ **Delivery Process** - Classroom / Lecture with class participation
- ▲ **Materials** - Participant workbooks w/ examples & class exercises
- ▲ **Instructional Leader** - Knowledge Management Group Practitioner
- ▲ **Class Size** - 6 to 14 participants

About Us:

The Knowledge Management Group is an established & proven service organization that is an authority in the application of statistical methods and Six Sigma to improve business performance.

Contact Us:

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