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Course code: Q1107

Measurement System Analysis (MSA)

Measurement System Analysis (MSA) is a statistical and experimental process that assesses the accuracy, precision, and stability of a measurement system. MSA is used to ensure that the data collected is accurate and that the system used to collect the data is suitable for the process. This course helps aspiring participants to understand how improvement helps to continual improve organisational management system using its best practice. Participants learn the details of each clauses of the standard requirement to be able to apply within their organization.

OBJECTIVE

- To describe the overview of MSA approach.
- To explain measurement system for quality management system.
- To explain method to prepare MSA for compliance to industry's requirement.
- To build awareness and encourage continual improvement within organization.

CONTENT

- **Session 1: Introduction**

Describe MSA in quality management system. Explain foundational knowledge contributes to concepts and principals of the MSA. Describe variation in the measurement process can directly contribute to our overall process variability.

- **Session 2: Terms and Definitions**

Describe relevant terms and definitions that normally use in MSA in related fields.

- **Session 3: MSA Development Methodology**

Provide standards and guidelines to be followed and explain all the components of MSA, prepare and fill out MSA forms.

Describe MSA and measurement calibration.

- **Session 4: Role and responsibility to MSA**

This session underscores the crucial role of MSA for individuals. The content provides a comprehensive overview of how to incorporate the MSA.

- **Session 5: Conclusion**

Conclude essential topics.

Exercise workshop will also be delivered in each key sessions

PREREQUISITES

Basic knowledge in ANSI/ESD S20.20 requirement is necessary. Experience in any industry will be more benefit.

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