

Measurement Systems Analysis (MSA)

Course Description

This course is applicable in companies which use measurements and gauges, and has particular relevance to ISO/TS 16949 and six sigma initiatives. The reliability of measurements is an important consideration in any situation where the measurements are used for decision-making purposes.

Duration/Delivery Mode

Typically 2 to 3 days.

Target Audience

Managers, engineers and technicians, who are involved in selecting and maintaining measurement systems. To fully appreciate this course, an understanding of basic statistical principles is desirable; hence, it is recommended that participants have attended the Foundation Level SPC Course.



Benefits

Measurement Systems Analysis (MSA)

- Enables you to select a measurement system which is capable for the required task
- Enables you to satisfy the measurement systems requirements for ISO/TS 16949
- Helps you to avoid costly measurement errors



Related Courses

Six Sigma

- Six Sigma Green Belt

Automotive Quality Management

- Quality System ISO/TS 16949
- Quality System Audit for ISO/TS 16949

Core Tools & Techniques

- Advanced Product Quality Planning (APQP)
- Production Part Approval Process (PPAP)
- Failure Mode and Effects Analysis (FMEA)
- Statistical Process Control (SPC)

To request a detailed course agenda, or to discuss your requirements with a training advisor, please contact us via the web page link (or by using the contact details shown below). If required, we shall be pleased to visit you for an initial discussion.



Course Details Summary

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- Concept of measurement uncertainty
- Types of measurement system error
- Measurement system discrimination
- Methods for evaluating repeatability and reproducibility (gauge R&R study)
- Analysis of results
- Attribute measurement studies
- Other measurement systems studies (e.g. bias, stability, linearity)
- Use of Minitab® software (Please see Minitab® page at www.icanthus.co.uk)



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