

Aerospace Risk Management and Analysis Series Setting Up for Process Capability and MSA



Course Duration: 1 Day - 8 Hours/day

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Seminar Content

This one-day seminar is designed to provide participants with an understanding of the importance of Measurement System Analysis (MSA) in controlling and improving the production process, as well as provide a practical knowledge of using statistical methods in analyzing the measurement system.

Measuring devices with low variability as evidenced by use of MSA are mandatory before conducting Statistical Process Control (SPC) or Process Capability. MSA studies are also required for PPAP submission.

Learning Objectives

- ❖ Define and understand measurement systems
- ❖ Define and understand the causes of variation
- ❖ Be able to qualify the sources of variation
- ❖ Choose appropriate system for data collection
- ❖ Ability to maintain measurement systems over the life of the manufacturing process

Seminar Outline

- ❖ Process Controls, SPC and MSA (KCs, CIPs and MCCs)
- ❖ Capability and Control
- ❖ Sources of Variation
- ❖ Control Charts: Basic
- ❖ Control Charts: Short Run
- ❖ Capability Analysis
- ❖ Breakout Exercise: Process Control and Capability
- ❖ Measurement System Analysis: Overview

- ❖ Breakout Exercise: Graphing GRR
- ❖ Breakout Exercise: Calculating GRR

Who Should Attend

- ❖ Quality Managers
- ❖ Quality System and Lab Technicians
- ❖ Management Representatives
- ❖ Engineers responsible for process improvements
- ❖ All other Risk Management personnel responsible for planning, using and maintaining measurement systems

Seminar Materials

Each participant will receive a seminar manual and a workbook including all team breakout exercises.

Pre-Requisite

A basic understanding of computational mathematics, a partial understanding of elementary applied statistics, and a basic background in statistical process control are recommended, but not required.

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