Seminar Objective:

This 2-day seminar is designed to provide participants with an understanding of the importance of the MSA in controlling and improving the production process and to give participants a practical knowledge of using statistical method in analyzing the measurement system. The course can be tailored to whatever industry, Product or process in which your company is engaged.

- To present a hand on approach to learning the principals and practice of MSA.

Prerequisite Skills

Fundamental knowledge of computational mathematics, partial understanding of elementary applied Statistics is necessary to understand the topics discussed. Please bring a **Calculator** during training session.

Who Should Attend?

Quality Managers, Quality System, Lab Technicians, Management Representative, those interested in auditing MSA, and those who are planning, using and maintaining measurement system. Engineers & individuals responsible for process improvement should also attend.

Seminar Outline

1.1. **Introduction to MSA**
1.2. **Introduction to IATF 16949:2016**
1.3. **Selection of Measurement System**
1.4. **Statistical Properties, Graphical Analysis**
1.5. **Discrimination**
(Discrimination Break out Exercise)
1.6. **Conducting GR&R Studies**
(GR&R Breakouts)
1.7. **Quantification of Measurement Systems**
1.8. **Bias, Linearity & Stability, Repeatability, Reproducibility**
1.9. **Attribute Measurement (Risk Analysis & Signal Detection Approach)**
1.10. **Comparative tools**
1.11. **Control Charts application during MSA**
1.12. **Relationship of MSA with SPC to improve process**

Mode of Workshop:

- ✓ Trainer Led Instructions
- ✓ PPT
- ✓ Activity etc.