Measurement System Analysis Training

MIMOS Berhad, Technology Park Malaysia
29-30 April | 2-day training
9.00 am - 5.00pm

Measurement System Analysis (MSA) is used to assess if Measurement System (MS) is capable in terms of precision, accuracy and consistency. Establishing adequacy of MS is fundamental to measure business process capability/ performance and meeting the requirements (specification) as demanded by customer.

This course is designed to develop competencies which are required to identify and conduct relevant MSA tools. This easy-to-follow course focus on implementation steps such as data collection planning, statistical analysis and results interpretation. The goal is to train candidates to become leaders in applying MSA for process improvement.

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LEARNING OUTCOMES

Upon completion, participants should be able to demonstrate/understand each of the following:

- Outline key basics of MSA for Variable and Attribute data
- Set up data collection plan for
  - Gage Repeatability & Reproducibility (GR&R) study
    - Crossed
    - Expanded
  - Bias & Linearity Study
  - Stability Study
  - Attribute Agreement Analysis (AAA)

- Conduct analysis using Minitab Statistical Software
- Interpret analysis result (graphical & numerical) produced by Minitab

METHODOLOGY

The methods used here are the combination of lecture + interactive discussion + group exercise. Upon request, a Post Test could be held to assess how much knowledge has been acquired by participants.

The course is primarily conducted in a class room. Each participant will be provided with a set of course materials.

PRE-REQUISITE:

A basic technical background or 1-2 years of working experience in any business operation discipline.

SYSTEM REQUIREMENT:

Each participant needs to download trial version of latest Minitab Statistical Software.

COURSE OUTLINE

- MSA Overview
  – Why MSA?
- Basic Statistics
- Measurement System Characteristics
  – Discrimination - Resolution
  – Precision
  – Accuracy
  – Linearity
  – Stability
- MSA for Variable Data
  – Gage Repeatability & Reproducibility (GR&R) Study
    o Crossed
    o Expanded

INSTRUCTOR PROFILE

Lee Kah Yaw has 19 years of experience in Electronics/Semiconductors industries and over 7 years in Applied Research & Development field where he has held various positions including Engineer, Lead Engineer, Staff and Senior Staff Engineer of Quality. In last 13 years of his career, Lee is devoted to delivering Six Sigma breakthrough improvement and championing Six Sigma deployment programme in manufacturing and product development. He first became full time Six Sigma Certified Black Belt in Flextronics who led and completed three assigned projects successfully with cumulative saving close to USD1 million. He then joined NXP Semiconductor as Senior Statistical Specialist who was responsible for the deployment of local/external Six Sigma programme and statistical support in critical problem solving for operational excellence. He obtained his Six Sigma Master Black Belt Certification in MIMOS Berhad where he continued to lead local Six Sigma programme with a key focus in transforming researchers and engineers to become statistical thinker in problem-solving.

To date, Lee has coached more than 80 Green Belt/Black Belt projects in which more than 70 percent of them accomplished with meeting project goal. He has practiced, designed, developed training curriculum and taught Six Sigma problem-solving methodology and tools (Quality/Statistical). Besides, more than 100 classes/workshops had been delivered successfully with a satisfactory response from participants. He is a certified PSMB trainer, registered with the Ministry of Human Resource, Malaysia.

Lee holds a Diploma in Electronics Engineering from TAR College, Malaysia and Master of Science in Manufacturing System Engineering from University of Hertfordshire, UK.

Please complete this form and fax or email to us

COURSE FEE	Fee per participant	Fee inclusive SST	
☐ **Standard Registration**	RM1,900.00	RM2,014.00	**HRDF MALAYSIA**
☐ **Early Bird Registration**	RM1,700.00	RM1,802.00	*Claimable under HRDF Scheme-SBL*
☐ **Group Discount**	RM1,500.00	RM1,590.00	
☐ **Universities & Colleges**	RM1,400.00	RM1,484.00	

No	PARTICIPANT DETAILS	CONTACT INFORMATION	MEAL PREFERENCE
1	Name: Designation:	Email: Mobile No.:	☐ Vegetarian ☐ Non-Vegetarian
2	Name: Designation:	Email: Mobile No.:	☐ Vegetarian ☐ Non-Vegetarian
3	Name: Designation:	Email: Mobile No.:	☐ Vegetarian ☐ Non-Vegetarian
4	Name: Designation:	Email: Mobile No.:	☐ Vegetarian ☐ Non-Vegetarian
5	Name: Designation:	Email: Mobile No.:	☐ Vegetarian ☐ Non-Vegetarian

Organisation : ....

Postal Address : ....

....

Tel : .... **Fax** : ....

Contact Person : .... **Position** : ....

Email : ....

AUTHORISATION

I understand and agree to MIMOS Berhad terms and conditions
(Signatory must be authorised to sign on behalf of the Organisation)

Name of the Authorised Person : ....

Position : .... **Date** : ....

Signature and Company Stamp:

Terms & Conditions:

1. Upon received of this registration form (MIMOS), we will invoice to the contact-person for payment processing.
2. Payment is required within 30 days upon receipt of the invoice. All payment must be received 7 working days prior to the training date. The fee shall include luncheon, coffee/tea breaks and training materials.
3. Cancellation or postponement – Any cancellation must be made in writing and to reach us no later than 10 working days prior to the training date. If written notice is received in less than 10 working days, 100% of total fees is chargeable. A substitute delegate with similar background and competencies, is always welcome at no additional charge.
4. Our instructor(s) and topics are confirmed at the time of this print. However, circumstances beyond the control of the organizers' may occur and MIMOS Berhad reserves the rights to alter or modify the advertised speakers/ topics if necessary.

To register & more information:

Business Development (MSSB), MIMOS Berhad

Call : +603-8995 5000 ext. 55279 (Fara), 55642 (Amy)   Email : faradaya.machmud@mimos.my, letchumy@mimos.my