



FAILURE MODE AND EFFECT ANALYSIS (FMEA)

FMEA is a tool for planning and setting up proper controls at key process points in manufacturing. This programme will address the requirements of troubleshooting in production with a focus on controlling/eliminating discrepancies and preparing proper action plans on the disposition in the event of discrepancies and failures. FMEA is also a requirement for companies pursuing QS9000 quality systems. FMEA is a well-documented procedure and it provides a standardised document that is being followed by automotive suppliers.

CONTENTS

- ◆ Definition and Purpose of FMEA
- ◆ FMEA Approach and Benefits
- ◆ Definition of Failure Modes
- ◆ Failure Causes
- ◆ Failure Effects
- ◆ Mitigation and Controls
- ◆ Common Manufacturing Practice on the Production Shop Floor
- ◆ Common Engineering Practices in the Product Life Cycle
- ◆ Risk Assessment
- ◆ Risk Priority Number (RPN)
- ◆ Reaction Plan
- ◆ Design FMEA
- ◆ Process FMEA
- ◆ Service FMEA
- ◆ Control Plan
- ◆ FMEA and Control Plan Integration
- ◆ Common Problem Faced in Workplace

OBJECTIVES

At the end of the programme, participants will be able to:

- ◆ define failure mode and effect analysis (FMEA)
- ◆ explain how FMEA helps improve reliability, cost and lead time
- ◆ identify the 3 stages of "Bathtub Curve" and types of failures they represent
- ◆ explain and illustrate the purpose of design and process FMEAs
- ◆ use and practice appropriate FMEAs at workplace
- ◆ identify several potential benefits of using FMEA
- ◆ identify the key imperatives of an effective FMEA implementation

FACILITATOR

Mr Lim Kim Yook has considerable experience in all areas of design, preparation, administration and delivery of soft and hard skills training in particular KAIZEN, Quality Control Circle, QC 7 Tools and New QC Tools, Automotive 5-Core Tools (PPAP, APQP, SPC, FMEA and MSA), Poka-Yoke, Supervisory Skills and 5S Implementation and Auditing. Graduated in Mechanical Engineering and Electrical Engineering, subsequently in Electronic Engineering, Mr Lim has more than 13 years of vast experience in manufacturing field such as Electronics, Semi-conductor and Automotive. Throughout his career, he has diversified himself into various departments such as Quality Assurance/ Quality Control, Production and Engineering; holding the managerial position for 6 years in Quality Assurance and Engineering departments. Certified ISO 9001, ISO 14001, ISO 9001 supplemented with ISO/TS 16949 Lead Assessor and ISO 13485:2003 Internal Quality Auditor, he is also a Quality Management Consultant and a Certified Corporate Coach. His expertise in quality management systems, i.e. ISO 9001, ISO 14001, OHSAS 18001, ISO 13485, US FDA QSR 21 CFR 820 and ISO/TS 16949 makes him a much sought-after trainer. Some companies he has rendered his expertise to include Malaysian Sheet Glass Bhd., Dragon Frontier Sdn. Bhd., PPHTeckWah Paper Products Sdn. Bhd., Suzuki Assemblers (M) Sdn. Bhd., Rexar Technologies Sdn. Bhd., Nippon Pigment (M) Sdn. Bhd. including medical devices manufacturers such as Straits Orthopaedics (Mfg) Sdn Bhd, TFS EMS Sdn Bhd and Polar Twin Advance for the U.S. market in compliance with US FDA QSR 21 CFR 820 and ISO 13485:2003.

WHO SHOULD ATTEND

Quality, Research and Development, Process Control and Supplier Quality Engineers, Supervisors and Technicians.

ADMINISTRATIVE DETAILS

Dates : **October 3 - 4 , 2012**

Time : 9.00 am – 5.00 pm

Venue: FMM Institute
Wisma FMM, 2nd Floor
No. 3, Persiaran Dagang
PJU 9 Bandar Sri Damansara
52200 Kuala Lumpur

Fees : FMM Members – RM850 per participant
Non Members – RM1,100 per participant
(Fees include course materials, Certificate of Attendance, lunch and refreshments)

SBU/SBU-KHAS Scheme

Registration is on a first-come first-served basis. Cheques made in favour of the "**FMM Institute**" should be forwarded one week before the commencement of the programme. Completed registration form, that is faxed, mailed or e-mailed to FMM Institute, would be deemed as confirmed.

All cancellations must be made in writing. There will be no charge for cancellation received 10 or more working days before the start of the programme. Cancellation received 6 – 9 working days before the start of the programme is subject to a cancellation fee of 50% of the course fees. Cancellation received 5 working days and below before the start of the programme is subject to a cancellation fee of 100% of the course fees. If the participant fails to attend the programme, the full course fees are payable. However, replacement can be accepted at no additional cost.

10% discount is applicable for registration of three (3) or more participants from the same organisation and of the same billing source.

The FMM Institute reserves the right to change the facilitator, reschedule or cancel the programme and all efforts will be taken to inform participants of the changes.

For further enquiries, please contact:
Ms Kavitha / Ms Josephine



FMM Institute

Tel: 03-62867200

Fax: 03-62776712

Visit us at www.fmm.edu.my

REGISTRATION FORM

FAILURE MODE AND EFFECT ANALYSIS (FMEA)

October 3 - 4, 2012 (Wednesday - Thursday)

FMM Institute Kuala Lumpur

The Manager

FMM Institute

Tel: 03-62867200

Fax: 03-62776712

Please tick (✓) accordingly:

PSMB Scheme: SBL SBL-KHAS Non Contributor

Required vegetarian meal: Yes No

Dear Sir/Madam,

Please register the following participant(s) for the above programme.

(To be completed in **BLOCK LETTERS**)

1. **Name** **Designation** **E-mail**

Nationality **IC No.**

2. **Name** **Designation** **E-mail**

Nationality **IC No.**

3. **Name** **Designation** **E-mail**

Nationality **IC No.**

(If space is insufficient, please attach a separate list)

Enclosed cheque/bank draft No. _____ for RM _____

being payment for _____ participant(s) made in favour of the "FMM Institute".

Submitted by:

Name: _____

Designation: _____ E-mail: _____

Company: _____

Address: _____

Tel No.: _____ Fax No.: _____ Date: _____

FMM Membership No.: _____ My Corporate Identity No.: _____