

FAILURE MODE & EFFECTS ANALYSIS (FMEA)
07-08 FEBRUARY 2018 (WEDNESDAY-THURSDAY), 9.00 AM – 5.00 PM
@ Sunway Hotel Seberang Jaya

Target Group: Managers and Engineers from Production and Quality Departments. Statistician, Purchasing and Marketing executives will also find this course relevant to their job function.

Introduction:

Since its introduction into U.S. industry, Failure Mode and Effect Analysis (FMEA) has generated widespread interest as means of improving reliability, avoiding costs and shortening lead times. FMEA's appeal lies in its versatility: Its principles and techniques can be applied to virtually any product or process, making it a valuable tool for companies in any industry.

An FMEA can be described as a systematic group of activities intended to recognize and evaluate the potential failure of a product/process and the effects of the failure, identify actions that could eliminate or reduce the chance of the potential failure occurring, and document the entire process. It is complementary to the process of defining what a design or process must do to satisfy the customer.

Because of the general trend industry to continually improve products and processes whenever possible, using the FMEA as disciplined techniques to identify and help minimize potential concern is as important as ever. One of the most important factors for the successful implementation of an FMEA program is timeliness. It is meant to be a "before-the-event" action, not an "after-the-fact" exercise. To achieve greatest value, the FMEA must be done before a product or process failure mode has been incorporated into a product or process. Up-front time spent properly completing an FMEA, when product/process changes can be most easily and inexpensively implemented, will minimize late change crises. An FMEA can reduce or eliminate the chance of implementing a preventive/corrective change that would create even large concerns.

Learning Objectives

At the end of this training session, participants will be able to:

- (a) Define Failure Mode and Effect Analysis (4th. Edition released on 28 June 2008);
- (b) Explain how FMEA helps improve reliability, cost and lead time;
- (c) Identify the 3 stages of "Bathtub Curve" and types of failures they represent;
- (d) Explain and illustrate the purpose of Design, Process and Service FMEAs;
- (e) Use and practice appropriate FMEAs at workplace.

Program Delivery Methods:

Classroom based. All topics will be covered by way of lectures, presentations, interaction, group/individual activities, exercises and case studies.

Course Content

Day 1:

Fundamentals of FMEA:

- Definition and Purpose of FMEA
- FMEA Approach & 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

Day 2:

FMEA Types and Implementation:

- Design FMEA
- Workshop
- Presentation
- Process FMEA
 - ✓ Workshop
 - ✓ Presentation
- Control Plan
- FMEA and Control Plan Integration
- Differences in FMEA 4th. Edition
- Critical and major changes in 4th. Edition
- Common Problem Faced in Workplace
- Question & Answer Session

**HRDF Claimable under
SBL Scheme**

Course Leader

Mr Eddie Kuang is graduate from the University of Science Malaysia. He majors in Applied Statistics and Operational Research and Minors in Management.

He is a Senior Member of the American Society for Quality (ASQ) and ASQ Certified Quality Engineer (CQE), Certified Manager of Quality / Organizational Excellence (CMQ/OE) and Certified Six Sigma Black Belt (CSSBB). He is also the Lead Auditor from International Register of Certificated Auditor (IRCA), United Kingdom specializing in ISO9001 QMS, ISO 14001 EMS, ISO22000 Food Industry QMS, ISO13485 Medical QMS, ISO/TS16949 Automotive QMS, Six Sigma Champion / Leader and Black Belt. He has been exposed to various kind of training such as ISO 9001/ ISO22000 / ISO 13485 / ISO/TS 16949 Quality Management System, ISO14001 Environmental Management System, Train the Trainer, Competency Based Training (CBT) from DETAFE, Adelaide Australia and Statistical Quality Control Courses such as Statistical Process Control (SPC), Advance SPC, 6 Sigma Programs (6 Sigma Champion / Leader, Black Belts and Green Belts). Failure Mode Effects Analysis (FMEA), Acceptance Sampling Plans, Gage Repeatability & Reproducibility (GR&R), Design of Experiment (DOE), Product Reliability & Liability, 7QC Tools, 7 Advance Quality Management & Planning Tools, 5S Housekeeping, Quality Control Circles (QCC), Productivity & Quality Improvement and etc.

With more than 21 over years of working experience directly in the Quality discipline, he has served QC/QA, TQM, Quality System and Training position in the electronic components, semiconductors, computer peripherals and automotive manufacturing industries. Besides that, he also invited to conduct training for various manufacturing industries like steel and metal, motor and motorcycle, foods, furniture, oil processing and rubber & plastic products, semiconductor & electronics components, pharmaceutical, computer peripherals and telecommunication. His major accomplishment were in the setting up the ISO 9001 / ISO 14000 / ISO 22000/ ISO 13485 / ISO /TS 16949 Quality Management System, introduced Total Quality Culture and Function, Six Sigma Black Belt and Green Belt Programs, Lean Manufacturing System, Total Productive Maintenance (TPM) and Just-In-Time (JIT), Kaizen Improvement Programs activities in such organizations.

Mr. Kuang also is an invited judge and speaker for some of the manufacturing industries and government bodies such as Tenaga Nasional Berhad (TNB), Telekom Malaysia Berhad, Inland Revenue Board, TLDM, TUDM, Local Town Council, Lion Group of Companies and Hong Leong Group of Companies, Texas Instruments (M) Sdn. Bhd., Agilent Technologies Malaysia, Siemens Semiconductor (M) Sdn. Bhd., Osram Opto Semiconductor Sdn. Bhd., Toshiba Electronic Malaysia (TEM), Motorola Malaysia, Unisem Berhad, Carsem Semiconductor (M) Sdn. Bhd., Flextronics Technologies (M) Sdn. Bhd., TEAC Electronics (M) Sdn. Bhd., Sonoco Products Malaysia Sdn. Bhd., Mabuchi Motor (M) Sdn. Bhd., Hitachi Semiconductor, IDS Electronics, Yamaha Electronic (M) Sdn. Bhd., StatChinPac Semiconductor (M) Sdn. Bhd., Silverstone Berhad, Seagate (M) Sdn. Bhd., BenQ Technologies, Konica Minolta (M) Sdn. Bhd., Western Digital Malaysia, Koa Denko Industries Bhd, Mintye Industries Bhd, Sinmah Resources, Xepa-Soul Pattinson Sdn. Bhd., Hovid Berhad, Pharmaniaga Sdn. Bhd. Mega Steel Sdn. Bhd., Amsteel Sdn. Bhd., Sabah Forest Industries, Chunghwa Picture Tubes (M) Sdn. Bhd., Konica Minolta (M) Sdn. Bhd. and etc. He believes in Competency Based Training (CBT) and promotes these concepts which emphasize the Consistent Application of Skills and Knowledge to Workplace Standards across the Full Range of Conditions. Mr Eddie Kuang is a Consultancy is a graduate from the University of Science Malaysia. He majors in Applied Statistics and Operational Research and Minors in Management.

He is a Senior Member of the American Society for Quality (ASQ) and ASQ Certified Quality Engineer (CQE), Certified Manager of Quality / Organizational Excellence (CMQ/OE) and Certified Six Sigma Black Belt (CSSBB). He is also the Lead Auditor from International Register of Certificated Auditor (IRCA), United Kingdom specializing in ISO9001 QMS, ISO 14001 EMS, ISO22000 Food Industry QMS, ISO13485 Medical QMS, ISO/TS16949 Automotive QMS, Six Sigma Champion / Leader and Black Belt.

Investment / Participation Fees

Normal fee: RM 950.00 / participant

10% group discount for three (3) or more registered participants from the same company or subsidiaries

Closing Date for Registration:
29 January 2018

flexiEdge Training PLT
Shoplot No. 9, Ground Floor,
Hotel Equatorial Penang,
1, Jalan Bukit Jambul,
11900 Bayan Lepas, Penang.
Tel/ Fax: 604-646 8377

REGISTRATION FORM



FAILURE MODE & EFFECTS ANALYSIS (FMEA)
07-08 FEBRUARY 2018 (WEDNESDAY-THURSDAY), 9.00 AM – 5.00 PM
@ **Sunway Hotel Seberang Jaya**



No.	Name of Participant(s)	Designation	Vegetarian? (please tick <input type="checkbox"/>)
1			
2			
3			
4			
5			
6			

Registration Submitted By:

Company Name:

Company Address:

Contact Person:

Designation:

Tel:

Fax:

Email:

Payment: Enclosed herewith Cheque/ Bank Draft (No. _____) amounting to RM _____ for
() participant(s), crossed and made payable to "flexiEdge Training PLT". OR

Bank in / transfer to our CIMB Bank A/C No.: 800 794 3431 and send us the bank in/ transaction slip.

**Kindly send your completed registration form through email to Ms. Felicia Tham/ Mr. Quah Eng Siang
at administrator@flexiedge.com.my or through fax to 04-646 8377. For further enquiry, please contact Ms. Felicia Tham/ Mr. Quah
Eng Siang of flexiEdge Training PLT at Tel: 04-646 8377/ 012-479 8377/ 013-588 3355**

Terms and Conditions

- Fees are inclusive of program kits, refreshments, lunch and certificate of attendance.
- Program confirmation will be notified through email before the program date. Kindly ensure the email provided is reachable. Please check your email, read the details especially the date, time and final venue and acknowledge the confirmation notification.**
- (a) Cancellation / notice of withdrawal must be given in writing (email) to us before program confirmation, no fee shall be charged.
(b) No cancellation is allowed once our program confirmation is emailed to you. However, if registered participant is unable to attend, replacement is allowed. No shows shall be fully billed. No refund if participant/ replacement does not turn up on the training day.
- flexiEdge Training PLT has the right to change the dates, time, venue, course leader or cancel the scheduled training due to unforeseen circumstances beyond its control.

*This program can be customised for In-House Training upon request.
Please contact Ms. Felicia Tham/ Mr. Quah Eng Siang @ 04-646 8377/ 012-479 8377 or email us at administrator@flexiedge.com.my
for more details or proposal.*