

FAILURE MODE AND EFFECT ANALYSIS (FMEA) 4TH EDITION

10 & 11 September 2012, Dorsett Regency Hotel, KL

PROGRAM BENEFITS

Through FMEA implementation program, the users are able to experience some tangible and intangible benefits:

- Prevention planning
- Identifies areas for continuous improvement
- Objectively assess the risk and prioritize the action plan
- Cost & Waste Reduction
- Customer satisfaction and delighting them
- Potential business growth

WHO SHOULD ATTEND

Design or Product Engineers, Process Engineers, Quality Engineers, Equipment Engineers, Test Engineers

PROGRAM OBJECTIVE

The purpose of this module is to introduce to the audience a number of available systematic problem solving methodologies. This module will cover the methodologies using the 8 Disciplines;

- Understand the appropriate procedure to perform Risk analysis for a design or Process
- Develop the right FMEA in addressing potential Design and Process issues via team oriented process that solves issues and challenges using factual data
- Transfer FMEA findings into effective Control Plan for Design and Manufacturing activities
- Provides an orderly method for solving problems, rather than a panic reaction
- Can be used for any problem or activity, helping to achieve efficient communication between departments which share a common approach
- Is based on facts rather than personal biases
- Conduct risk assessment effectively and ensure Product and Process quality in Proactive Manner
- Set priority on corrective action items,
- Establish an effective control and prevention plan,
- Identify areas for continuous process improvement

PROGRAM OUTLINE

DAY 1

INTRODUCTION ON FMEA

- What is FMEA?
- Importance of Preventive Approach
- History of FMEA

FMEA METHODOLOGY

- Different type of approach in managing a process
 - Reactive approach
 - Proactive approach
 - Corrective and Preventive actions
- Risk Analysis of a Process/Design per the 4th Edition
- Process Flow Charts
 - Use of appropriate symbols
 - Process Flow Chart construction(exercises)
- Turtle Diagram
- Gap Analysis: FMEA 4th edition versus previous edition

DAY 2

DESIGN FMEA

- Introduction to DFMEA
- Design FMEA Benefits
- Quality Function Deployment (QFD)
 - The linkage between FMEA and QFD
 - The 5W's and 1H of QFD
 - General Examples with case study
- Design Verification Plan and Report
- Development of DFMEA
- DFMEA Output
- Examples and Workshop based on your company's process application and customer requirements

PROCESS FMEA

- Introduction to PFMEA
- Process FMEA Benefits
- Process Mapping

FMEA PRINCIPLES, FRAMEWORK AND APPLICATION

- Scope and Objectives of FMEA
- The FMEA team dynamics
- FMEA Framework
- Types of FMEA and Users
- FMEA Prerequisites
- FMEA Process in Product Development
- FMEA Terms and Definitions
- FMEA Step by Step

- Cause-&-Effect Matrix
- Development of PFMEA
- PFMEA Output
- Examples and Workshop based on your company's product application and customer requirements

TRANSFERRING FMEA FINDINGS INTO CONTROL PLAN PER TS16949:2009

- Examples of Control Plans
- Objectives of Control Plans
- The Need for Control Plans
- Structure of Control Plan
- Out of Control Action Plan
- Regular Audits

TOOLS THAT CAN BE APPLIED FOR EFFECTIVE FMEA STUDIES

- Questioning Techniques
- Root Cause Analysis technique
- Cause mapping
- Fault Tree Analysis (FTA)
- Mistake-Proofing/POKA-YOKE

TRAINER PROFILE

Branchis Simon has an impressive record in the field of Quality and Operation Management for over 20 years. He holds a Bachelor of Science degree in Solid State Physics from University of Malaya and post graduate degree in Master in Business Administration from the University Utara Malaysia. He is certified ISO auditor certified by IRCA, UK. He specializes in Quality Management System and Problem Solving and Techniques in Manufacturing practices and Business Management. During his tenure as Regional Quality Manager in Flextronics Industries he has established operational quality objectives through effective deployment of operational KPI's across Asia and Eastern Europe region and continuously managed and monitored operational health of manufacturing activities. Developed critical communication strategies through working collaboratively and establishing sustainable decision and reporting frameworks for management (KPI's). He has vast experience in project transfers and exposure in cross cultural manufacturing environment from Europe and United States to Malaysia and China on Printed circuit Board, Handset and Network cards Assembly.

He has developed and implemented Quality audits and effective customer focus audit (CFA) mechanism to close loop with 8D reports, implemented SPC review on Key Process Indicators (KPI) for his clients. He has also assisted his clients in technical report writing to articulate the quality issues in perspectives and improved operational cost via reduction and elimination of non-value add activities in manufacturing floor. In his career to date, Branchis has been actively involved in the implementation of various process improvement methodologies in wide range of industries. He has served clients in sectors such as automotive, semiconductor, assemblies, metal, rubber, plastic, wood, paper, chemical, and food, logistic and educational Institution. With more than 20 years of experience in the manufacturing industry, he has developed and trained many supervisors/line leaders, technicians, engineers and managers in Statistical Process Control (SPC), POKA-YOKE, Process Capability, FMEA, Kepnor-Tregoe, Critical Problem Solving and Decision Making, Measurement System Analysis(MSA)/GRR, Mind Tools, Quality Control Circle(QCC)/Small Group Activity implementation, Problem Solving Tools/methods application in Quality Engineering, Quality Mindset for QC/QA Personal, Effective QC/QA operation, Six Sigma DMAIC process, Eight Discipline Problem solving(8D), Kaizen, Lean Effective Problem Solving using 8D and 7QC tools, Why-Why Analysis, QCC with 7 QC tools and Customer Focus Program.

REGISTRATION FORM



- 2 - Day training @ **RM 1, 300.00** per delegate
- Early Bird Discount @ **RM 1, 200.00** per delegate
Fax in your registration before Friday, 24 August 2012 to enjoy the Early Bird discount
- Group Discount for **3 or more participants @ RM 1, 100.00** per delegate

Method of payment:

Crossed Cheque / bank draft to be made payable to "KNOWLEDGE EVOLUTION SDN BHD" and courier to Knowledge Evolution Sdn Bhd 5A Jalan Bukit, Section 11/2, 46200, Petaling Jaya, Selangor Malaysia

Cancellations & Substitutions:

All cancellations of registrations must be made in writing. If cancellations received one week before the event i.e. **31 August 2012** you will be entitled to a 50% refund. Due to contractual commitments no refund will be made after **31 August 2012**; however a complete set of documentation will be sent to you. Substitutions are welcomed at anytime.

Note: It may be necessary for reasons beyond control, to change the content and timing of the event, speaker(s) or venue, every effort will be made to inform the participants of the change.

Please note that payment must be received within 5 working days upon issuance of invoice. Please Complete this form immediately and fax this to FAX: +603 7960 3872. Registration closes on Friday, 7 September 2012. Please contact Nermala at Nermaladevi@knowledge-evo.com

(Failure Mode and Effect Analysis(FMEA) 4th Edition)

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