

INTERPRETATION & APPLICATION OF AIAG-VDA INTEGRATED APPROACH TO ENHANCE 7-STEP FMEA



Objectives

This program is designed to equip the participants with the practical knowledge on the Interpretation of AIAG-VDA Integrated Approach to Process FMEA (Failure Mode and Effects Analysis) through enhancement of foundation FMEA.

Duration

2 days | 9am – 5pm | 14 hours

Who Should Attend

This program is designed for R&D / Quality Assurance / Process Control / Quality Control / Technical and Engineering Personnel who are involved in managing Design Control / Process Control and Quality Control activities with a view to enhance process and productivity improvements through the application of FMEA.

Course Fees

Member: S\$782.62
Non-Member: S\$867.64

All fees stated are inclusive of Registration Fee and 9% GST

Award of Certificate

Certificate of Completion will be issued to participants who have attended at least 75% of the course.

Course Contents

Day One (0900~1200 hrs): Foundation FMEA

- ◆ Essential Concept of FMEA Development Activities
- ◆ Process Flow Diagram
- ◆ Prevention Control vs Detection Control
- ◆ Fundamental Concept of Risk Management
- ◆ Risk Estimation Techniques
- ◆ Risk Evaluation Criteria
- ◆ Classroom Exercises & Discussion

Day One (1300~1700 hrs): Introduction To AIAG-VDA FMEA

a) Introduction

- ◆ Purpose and Description
- ◆ Objectives and Limits of FMEA
- ◆ Integration of FMEA In the Company
- ◆ FMEA For Products and Processes
- ◆ Project Planning (5T)
- ◆ FMEA Methodology
- ◆ Classroom Exercises & Discussion

b) Classification of FMEA

- ◆ Design FMEA
- ◆ Process FMEA
- ◆ FMEA-MSR
- ◆ Severity, Occurrence, Detection & Action Priority (AP) Tables

Day Two (0900~1200 hrs): Illustration of the 7-Step Process FMEA

- ◆ Process FMEA 1st Step: Planning and Preparation
- ◆ Process FMEA 2nd Step: Structure Analysis
- ◆ Process FMEA 3rd Step: Function Analysis
- ◆ Process FMEA 4th Step: Failure Analysis
- ◆ Process FMEA 5th Step: Risk Analysis
- ◆ Process FMEA 6th Step: Optimization
- ◆ Process FMEA 7th Step: Results Documentation

Day Two (1300~1700 hrs): Practical Exercise on 7-Step Process FMEA

Participants will be supervised to execute the following assignments:

- ◆ Outline a FMEA Procedure based on the given FMEA Methodology
- ◆ Draft a Process Flow Diagram before conducting a Process FMEA
- ◆ Conduct PFMEA by applying AIAG-VDA 7-Step Methodology.
- ◆ Review the outputs of the 6-Steps and then compile the FMEA Reports in accordance with the 7th Step
- ◆ Individual or Group Presentation & Discussion



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- ~ Organization membership
- ~ Individual membership

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