

INTERPRETATION & APPLICATION OF AIAG VDA INTEGRATED APPROACH TO FAILURE MODE AND EFFECT ANALYSIS (FMEA)



Objective

This program is designed to equip the participants with the practical knowledge on the Interpretation and application of AIAG-VDA Integrated Approach To Failure Mode and Effects Analysis (FMEA) in order to enable them to develop Design FMEA, Process FMEA and Supplemental FMEA for Monitoring and System Response.

Duration

2 days | 9am – 5pm | 14 hours

Who should attend

This program is designed for R&D / Quality Control / Process Control / Quality Assurance / 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.

Pre-requisite

Participants must have attended and completed the Basic FMEA Training Course.

Course Fees

Member: S\$810
Non-Member: S\$842.40
Registration Fee of S\$17.28 apply
All fees stated are inclusive of 8% GST

Award of Certificate

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



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Course Contents

DAY ONE (0900-1200): Introduction & Interpretation of 5T

- ◆ Purpose and Description
- ◆ Objectives and Limits of FMEA
- ◆ Integration of FMEA In The Company
- ◆ FMEA For Products and Processes
- ◆ Project Planning (5T)
 - FMEA Intent
 - FMEA Timing
 - FMEA Team
 - FMEA Tasks
 - FMEA Tools
- ◆ FMEA Methodology
- ◆ Classroom Exercises & Discussion

DAY ONE (1300-1700): Interpretation & Application of “7 Steps” Methodology Using Design FMEA

- ◆ Design FMEA 1st Step : Planning and Preparation
- ◆ Design FMEA 2nd Step : Structure Analysis
- ◆ Design FMEA 3rd Step : Function Analysis
- ◆ Design FMEA 4th Step : Failure Analysis
- ◆ Design FMEA 5th Step : Risk Analysis *
- ◆ Design FMEA 6th Step : Optimization
- ◆ Design FMEA 7th Step : Results Documentation
- ◆ Classroom Exercises & Discussion

Note: Action Priority (AP) is based on combinations of Severity, Occurrence, and Detection Ratings in order to prioritize actions for risk reduction.

DAY Two (0900-1030): Brief Introduction To Supplemental FMEA For Monitoring and System Response (FMEA-MSR)

DAY Two (1030-1200 & 1300-1700): Practical Workshop - Process FMEA (7 Steps)

- ◆ Participants will be divided into Groups to develop Process FMEA in accordance with the similar 7-Steps Methodology.
 - 1st Step : Planning and Preparation
 - 2nd Step : Structure Analysis
 - 3rd Step : Function Analysis
 - 4th Step : Failure Analysis
 - 5th Step : Risk Analysis
 - 6th Step : Optimization
 - 7th Step : Results Documentation
- ◆ Group Presentation, Review & Discussion



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<https://www.sqi.org.sg/courses/>
 or QR Code for soft copy
 and updated training schedule

Membership Application

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 application form.

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- ~ Organisation membership
- ~ Individual membership

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