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



**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\$668.75 Non-Member: S\$695.50 Registration Fee of S\$17.12 apply All fees stated are inclusive of 7% GST

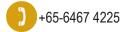
**Award of Certificate** 

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









## **Course Contents**

#### DAY ONE (0900-1200): 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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Membership Categories:

- ~ Organisation membership
- ~ Individual membership

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