

COURSE TITLE

FAILURE MODE AND EFFECT ANALYSIS (FMEA)

Introduction

FMEA, is a methodology aimed at allowing organizations to anticipate failure during the design stage by identifying all of the possible failures in a design or manufacturing process.

FMEA is not a substitute for good engineering. Rather, it enhances good engineering by applying the knowledge and experience of a Cross Functional Team (CFT) to review the design progress of a product or process by assessing its risk of failure.

Course Fees

Member: \$684.52

Non-Member: \$758.64

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

OBJECTIVES

This interactive course will enable the participants to:

- understand the principle and concept of FMEA, and correctly apply this methodology for use in design or process or service environment.
- apply a structural approach to any improvements and problem-solving processes and formalizes the mental discipline during these processes.



**SINGAPORE
QUALITY
INSTITUTE**

WHO SHOULD ATTEND

This course is suitable and beneficial to anyone involved in maintenance, marketing, design, and process control and improvement activities and also particularly for individual who is responsible for planning, developing or managing a quality system to satisfy the QS 9000 or IATF 16949 quality system requirements.

2026

Course Brochure

QUALITY TOOLS &
TECHNIQUES
– FAILURE MODE
AND EFFECT
ANALYSIS (FMEA)

COURSE CONTENTS

- Introduction to FMEA
 - What is FMEA
 - Compare and contrast the different types of FMEA
 - Types and selection of key quality characteristics for use in a FMEA process
 - Frequently Ask Questions (FAQs)
- Methodology and steps in developing and applying an FMEA
 - The 14 steps approach
 - Understanding the differences and relationship between failure mode, cause and effect
 - Severity, Occurrence, and Detection probability assessment and rating
 - Risk and Priority Ranking
 - Corrective Actions
- Implementation Strategies
 - Understanding Deployment Failure
 - Deploying FMEA inside the organization
 - The "FMEA Deployment Model"
 - Supporting improvement tools use in each phase of the FMEA
- Control and Reaction Plans Methodology
 - Overview of Control and Reaction Plans and relation with FMEA
 - Step-by-step description of each control plan requirements
 - Process, Product and Special Characteristics classification
 - Selection of various process control method
 - Uses of process analysis tools in the reaction plan
 - Workshop practical exercises

TRAINER

This course is conducted by Trainers who are experienced in the areas of organizational business excellence, quality management, change management, risk management, business continuity, project management and auditing.

AWARD OF CERTIFICATE

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

DURATION

2 days
9am – 5pm
14 hours



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