



## ESF Human Solutions Sdn Bhd

Reg. No 202301042321 (1536238-U)

Mobile/WhatsApp: 6012-396 2382 Office: 1-700-81-0621

Email: [esfhumansolutions@gmail.com](mailto:esfhumansolutions@gmail.com)

Website: [www.esfhs.com.my](http://www.esfhs.com.my)



# FAILURE MODE EFFECTS ANALYSIS (FMEA)

**2 Days Course (9.00am – 5.30pm)**

## COURSE OVERVIEW

FMEA is a reliability engineering technique based on the concept of predicting and solving problems before they can occur, thus saving considerable amounts of time, effort and money.

## COURSE OBJECTIVES

To teach the participants to recognize and evaluate potential failure of a process and the effects of that failure. Also to identify actions that could eliminate or reduce the chance of occurring.

By the end of this program, the participants will be able to:

- Increase customer satisfaction
- Prevent problems
- Improve product/process reliability and quality
- Document risks and actions taken to reduce risks
- Understand the process of identifying, categorizing and solving problems or resolving concerns

## COURSE CONTENTS

### Module 1 – Introduction

- Concepts
- Consequences of error
- What is an FMEA
- Brief history of FMEA
- Implementing FMEA
- FMEA process sequence
- Follow-up

### Module 2 – Design FMEA – Quick Overview

- Introduction
- System
- Sub-system
- Component

### Module 3 – Process FMEA – Failure Mode

- Introduction
- Development of a PFMEA
- Process function/requirements
- Potential failure mode

### Module 4 – Process FMEA – Failure Effect and Severity

- Potential effects of failure
- Severity

### Module 5 – Process FMEA- Failure Cause

- Classification
- Potential causes/mechanisms of failure
- Root Cause Analysis Tools
- Flowchart Analysis
- Fishbone diagram
- 5 Why Analysis
- Relationship Diagram
- Occurrence

### Module 6 – Process FMEA – Current Process Control

- Current process control
- Detection
- Mistake Proofing Techniques



## ESF Human Solutions Sdn Bhd

Reg. No 202301042321 (1536238-U)

Mobile/WhatsApp: 6012-396 2382 Office: 1-700-81-0621

Email: [esfhumansolutions@gmail.com](mailto:esfhumansolutions@gmail.com)

Website: [www.esfhs.com.my](http://www.esfhs.com.my)



### Module 7 – Process FMEA – Risk Analysis and Improvement Action

- Risk priority number
- Recommended action
- Responsibility and target
- Action results
- Follow-up actions

### HOW YOU WILL LEARN

This program involves a wide range of learning approaches, including self - assessment, case studies, small group activities and discussions, interactive lectures, experimental learning group assignments and exercises and presentation and critique.

### WHO SHOULD ATTEND

Management representatives, internal auditors, Product & Process engineers, QA/QC engineers and those who are responsible in implementing, managing and supporting development of FMEA in a systematic and effective manner.

### Note:

Please reach out to us via 6012-396 2382 (Phone call or WhatsApp) for more details or in-house program arrangement