

Course code: Q1106

Failure Mode and Effect Analysis (FMEA)

Failure Mode and Effects Analysis (FMEA) is a systematic method for identifying and addressing potential failures in a process or product. FMEA is used in many industries such as automotive, aerospace, medical device manufacturing, electronic, and others that require effective a risk assessment tool. This course helps aspiring participants to understand how improvement helps to continual improve organisational management system using its best practice. Participants learn the details of each clauses of the standard requirement to be able to apply within their organization.

OBJECTIVE

- To describe the overview of FMEA approach.
- To explain risk-based thinking for quality management system.
- To explain method to prepare FMEA for compliance to industry's requirement.
- To build awareness and encourage continual improvement within organization.

CONTENT

• **Session 1: Introduction**

Describe FMEA in quality management system. This foundational knowledge contributes to concepts and principals of the FMEA and Voice of the Customer (VOC). Describe history and purpose of FMEA

• **Session 2: Terms and Definitions**

Describe relevant terms and definitions that normally use in FMEA in related fields.

• **Session 3: FMEA Development Methodology**

Provide standards and guidelines to be followed and explain all the components of FMEA, prepare and fill out FMEA forms.

Describe Failure Mode Avoidance (FMA) and Failure Prevention Analysis (FPA).

• **Session 4: Role and responsibility to FMEA**

This session underscores the crucial role of FMEA response training for individuals. The content provides a comprehensive overview of how to incorporate the FMEA.

• **Session 5: Conclusion**

Conclude essential topics.

Exercise workshop will also be delivered in each key sessions

PREREQUISITES

Basic knowledge in ANSI/ESD S20.20 requirement is necessary. Experience in any industry will be more benefit.



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