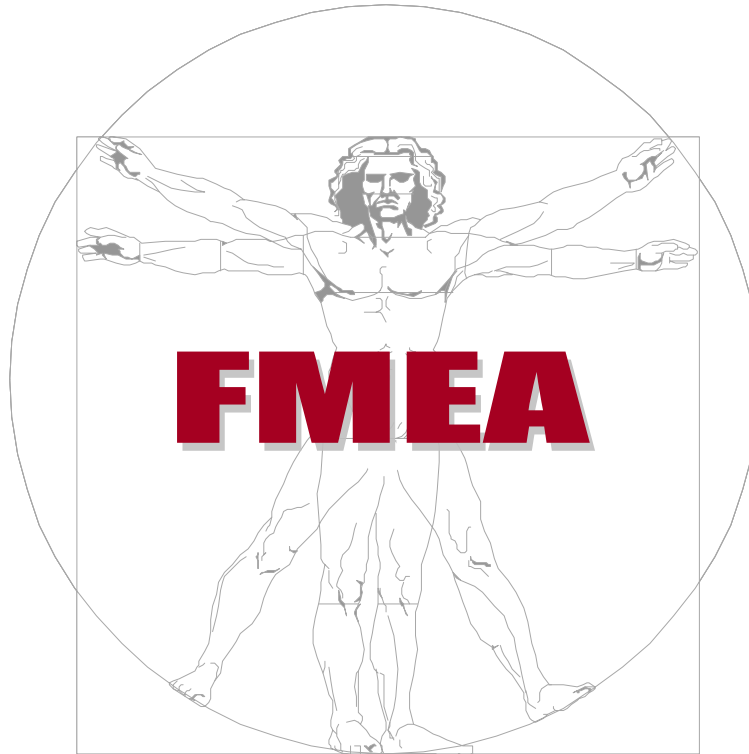


Failure Mode and Effects Analysis



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Objectives

After completing the course, you will ...

- Understand the benefits and limitations of FMEA
- Recognize high payoff opportunities for using FMEA
- Understand and plan for the factors that are critical to the success of FMEA
- Learn how to use Fault Trees to support root cause analysis
- Understand the logic and structure of both the Design FMEA and the Process FMEA methodologies
- Identify potential job-related opportunities for utilizing FMEA
- Understand the human factors that are critical to FMEA
- Apply what you've learned to a job-related application

FMEA

Training Solution

Why

Introduction and Overview

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When

Performing a Design FMEA

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**Identifying and Evaluating
Causes of Failure Modes**

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How

Performing a Process FMEA

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**FMEA Team & Teamwork
Considerations**



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Who



What Is FMEA?

FMEA is a tool for . . .

Anticipating potential failure modes

Prioritizing risk responses

Specifying and assigning pre-emptive actions



FMEA is a proactive risk management tool

FMEA focuses primarily on customer “care-about”

FMEA is a qualitative tool that relies on both inductive and deductive reasoning and subjective assessment of risks



Some FMEA Varieties

System FMEA (aka, Functional FMEA)

Used when risks inherent in the design of a new system are a concern, including system/subsystem interface risks

Design FMEA

Often applied to new designs or when new or unfamiliar technology is involved – typically at unit or component level

Process FMEA

Often applied to production processes that will be created to support a new product or to an existing process that is to be modified

Facilities FMEA

Often used to anticipate problems in designing and constructing new facilities or in modifying an existing facility



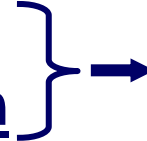
Potential FMEA Opportunities

**System/Process/
Component**



Intended Function

**Critical
Customer Concern**

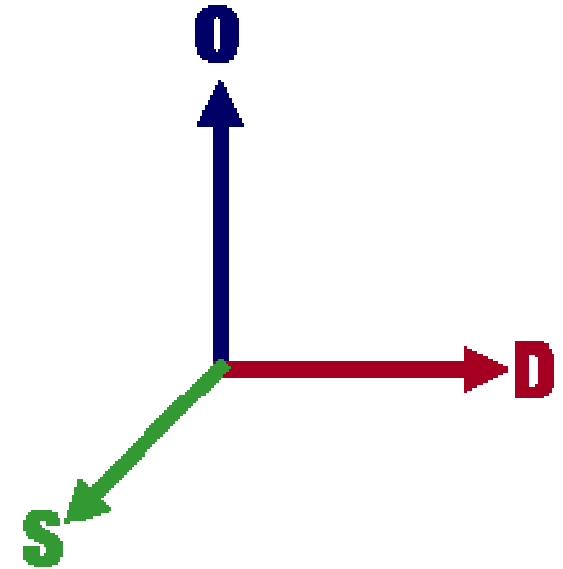


**Expressed as a
Failure Mode**



The Three Risk Variables

1. S _____
2. O _____
3. D _____



FMEA is based on taking action to diminish one or more of these variables

Each variable is rated on a scale of ___ to ___

The product these 3 variables is called _____



***Contact us to bring this training
course to your organization ...***

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