

# FAILURE MODE & EFFECTS ANALYSIS WORKSHOP

Identify, Prioritize, and Mitigate Potential Failures

Increase the Reliability of your Products & Processes

Boost Customer Satisfaction & Competitive Advantage

**Quantification is the heart of the FMEA**

**Severity:** The magnitude of the mode, should it occur

**Occurrence:** The likelihood it will occur

**Detection:** The ability to detect failure to avoid the severity

Severity Rating		Occurrence Rating		Detection Rating		Failure in time to failure mode	Probability	Rating
Extreme	May endanger machine or operator Hazardous <b>without</b> warning	Very High	Failure is almost inevitable	Very Low	No known control(s) available to detect failure mode in time to prevent harmful effects.	1 in 10	10	
	May endanger machine or operator Hazardous <b>with</b> warning							
High	Major disruption to production Loss of primary function, 100%	High	Process is not in statistical control Similar processes have experienced failures	Low	Controls have a remote chance of detecting the failure in time to prevent harmful effects.	1 in 20	9	
	Reduced primary function performance Product requires sorting, some scrap							
Moderate	Minor disruption of production. Some scrap Loss of secondary function performance	Moderate	Process is in statistical control but with some variability Previous processes have experienced failures or out-of-control conditions	Moderate	Controls may detect the existence of a failure in time to prevent harmful effects.	1 in 100	7	
	Minor disruption to production. 100% scrap Reduced secondary function performance							
Low	Fit & Finish/Squeak & Rattle item. Minor defect noticed by most customers	Low	Process is in statistical control	High	Controls have a good chance of detecting the existence of a failure in time to prevent harmful effects	1 in 1,000	4	
	Defects may be reworked on-line Minor defect noticed by observant customer							
None	No effect	Very Low	Process is in statistical control. Failures associated with almost identical processes	Very High	The process automatically detects failure. Controls will almost certainly detect the existence of a failure in time to prevent harmful effects.	1 in 5,000	2	
								Failure is unlikely. No known failures with almost identical processes
						1 in 10,000	1	

## AGENDA (5 DAYS ON-SITE OR VIRTUAL OPTIONS AVAILABLE)

5-DAY AGENDA	DESCRIPTION
DAY 1	Lean Training Review Function, Current Design, and Available Data on Similar Designs/Processes
DAY 2-3	Review design or process <ul style="list-style-type: none"> <li>Find Failure Modes</li> <li>Score for Severity, Occurrence Likelihood, and Detection</li> <li>Calculate Risk Priority Number</li> </ul>
DAY 4	Select Areas for Design Improvement Create & Evaluate Initial Redesign
DAY 5 (1/2 DAY)	Sustainment Planning Report Out



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A LEAN FOCUS PRACTICE AREA

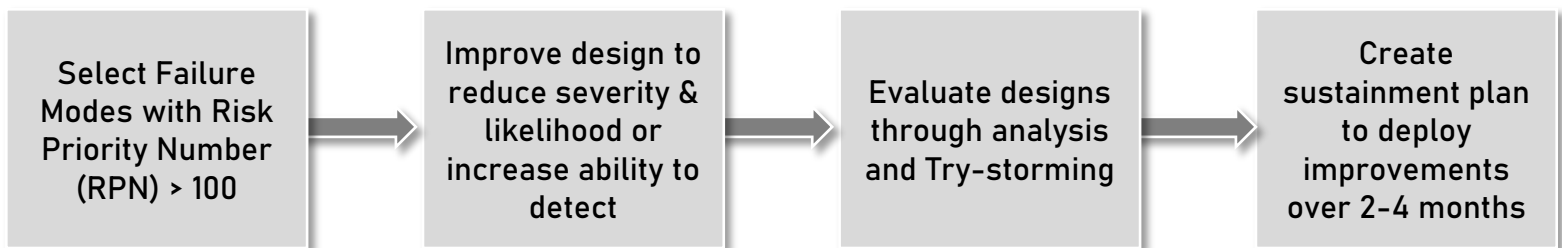
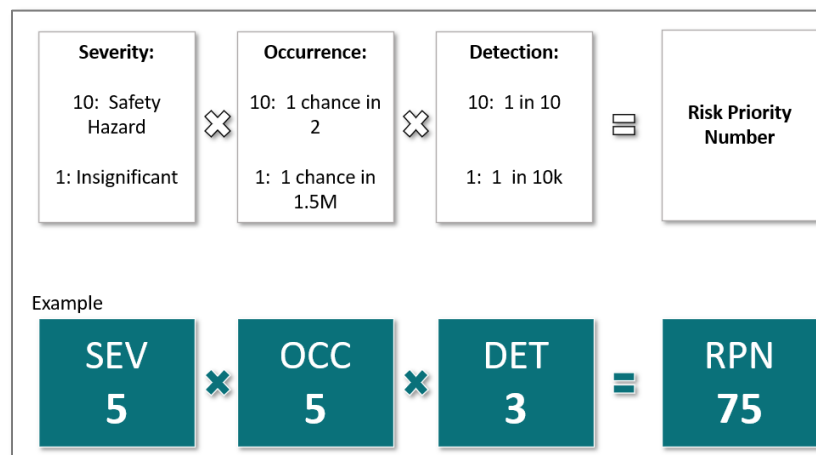
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## WHAT IS A FAILURE MODE & EFFECTS ANALYSIS (FMEA) WORKSHOP?

A Failure Mode & Effects Analysis Workshop will provide a comprehensive, cross-functional review of a design or process prior to product launch:

- Gain Deep Understanding of Component Function
- Identify Failure Modes
- Evaluate Severity, Occurrence Likelihood, and Detection
- Select Areas where Design/Process needs improvement
- Create Process to sustain & enhance guidelines

## IMPROVING THE DESIGN OR PROCESS



REQUEST A CONSULT:  
INFO@LEANFOCUS.COM

## How do I get started?

**Schedule a Failure Mode & Effects Analysis Workshop**

Take the first step toward workspace transformation. Contact us today to schedule a consultation and discover how FMEA can elevate your organization's operations.



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