



# **COURSE SUMMARY & CONCLUSION**

# FAILURE MODE & EFFECT ANALYSIS (FMEA)

WHAT IS FMEA?	STAGE 01: IDENTIFYING THE FAILURE MODE AND SPECIFYING ITS SEVERITY	STAGE 02: SPECIFYING THE OCCURRENCE OF FAILURE	STAGE 03: SPECIFYING THE DETECTABILITY OF FAILURE
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## **SECTION: WHAT IS FMEA?**

**WHAT IS A FAILURE MODE AND EFFECT ANALYSIS?**

**WHY AND WHEN TO USE FMEA?**

**THE HISTORY OF FMEA**

**WHAT ARE THE TYPES OF FMEA?**

**WHAT IS A PROCESS FMEA?**

# WHAT ARE THE 6 STAGES OF FMEA?

1

## IDENTIFYING THE FAILURE AND SPECIFYING THE SEVERITY OF IT

- a. Discuss different steps and activities
- b. Brainstorm potential failure modes
- c. Document potential failure effects
- d. Assign a severity ranking to each failure mode

2

## SPECIFYING THE OCCURRENCE OF FAILURE

- a. Identify potential causes of each failure mode
- b. Assign an occurrence ranking

3

## SPECIFYING THE DETECTABILITY OF FAILURE

- a. Identify the current process controls of each failure mode
- b. Assign a Detection rating

4

## QUANTIFYING RISK

- a. Calculate Risk Priority number for each failure mode

5

## CORRECTING HIGH RISK SITUATIONS

- a. Document recommended actions
- b. Assign the responsibility and target date for eliminating or mitigating high risk/high severity failure modes

6

## RE-EVALUATING THE RISK

- a. After completing the identified actions, document the specific actions
- b. Revise the severity, occurrence and detection ratings
- c. Calculate the new RPN number



# SECTION: STAGE 01 OF FMEA

## TOP SECTION OF FMEA:

Failure modes and effects analysis (FMEA)				
Project:	Write the Title of Your Project		Date:	Update the date
FMEA Team:	Write the Names of Team Members involved to Create this FMEA		Prepared by:	Write the Names of Individuals who prepared this worksheet

## DIFFERENT COMPONENTS OF STAGE 01:

Business Function	Process step	Potential failure mode	Potential failure effects	S E V
Which Functional Department?	What is the step?	In what ways can the step go wrong?	What is the impact on the customer if the failure mode is not prevented or corrected?	10

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## SECTION: STAGE 02 OF FMEA

Business Function	Process step	Potential failure mode	Potential causes	O C C
Which Functional Department?	What is the step?	In what ways can the step go wrong?	What causes the step to go wrong? (i.e., How could the failure mode occur?)	10

**WHAT ARE THE POTENTIAL CAUSES?**

**WHAT IS THE OCCURRENCE RATING?**

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# SECTION: STAGE 03 OF FMEA

Business Function	Process step	Potential failure mode	Current process controls	D E T
Which Functional Department?	What is the step?	In what ways can the step go wrong?	What are the existing controls that either prevent the failure mode from occurring or detect it should it occur?	10

**WHAT ARE THE CURRENT PROCESS CONTROLS?**

**WHAT IS THE DETECTION RATING?**

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# SECTION: STAGE 04 & 05 OF FMEA

Business Function	Process step	S E V	O C C	D E T	R P N	Actions recommended	Responsibility (target date)
Which Functional Department?	What is the step?	10	10	10	1000	What are the actions for reducing the occurrence of the cause or for improving its detection? You should provide actions on all high RPNs and on severity ratings of 9 or 10.	Who is responsible for the recommended action? What date should it be completed by?

**WHAT IS A RISK PRIORITY NUMBER?**

**WHAT ARE THE ACTIONS RECOMMENDED?**

**WHAT IS THE RESPONSIBILITY, TARGET COMPLETION DATES AND ACTIONS TAKEN?**

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# SECTION: STAGE 06 OF FMEA

Business Function	Process step	Potential failure mode	N S e E w V	N O e C w C	N D e E w T	N R e P w N
Which Functional Department?	What is the step?	In what ways can the step go wrong?	10	10	10	1000

## CALCULATING THE RESULTING RPN

## CREATING A SPIDER CHART

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# SECTION: 14 STEPS TO CONSTRUCT FMEA

1

**ASSEMBLE A CROSS-FUNCTIONAL TEAM**

2

**IDENTIFY THE SCOPE OF FMEA**

3

**FILL IN THE IDENTIFYING INFORMATION AT THE TOP OF YOUR FMEA FORM**

4

**IDENTIFY THE FUNCTIONS OF YOUR SCOPE & PROCESS STEPS**

5

**FOR EACH FUNCTION, IDENTIFY THE POTENTIAL FAILURE MODES**

6

**FOR EACH FAILURE MODE, IDENTIFY THE POTENTIAL FAILURE EFFECTS**

7

**DETERMINE HOW SERIOUS EACH EFFECT IS**

8

**FOR EACH FAILURE MODE, DETERMINE ALL THE POTENTIAL ROOT CAUSES**

9

**FOR EACH CAUSE, DETERMINE THE OCCURRENCE RATING**

10

**FOR EACH CAUSE, IDENTIFY CURRENT PROCESS CONTROLS**

11

**FOR EACH CONTROL, DETERMINE THE DETECTION RATING**

12

**CALCULATE THE RISK PRIORITY NUMBER (RPN)**

13

**IDENTIFY RECOMMENDED ACTIONS**

14

**CONTINUE TO RE-EVALUATE THE RISKS AND FAILURES IN YOUR BUSINESS PROCESS. FMEA IS A LIVING DOCUMENT**

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**KEEP LEARNING & KEEP GROWING**