



FMEA Template

Manufacturing Process / 4 May 2023 / Arlene Nelson

Complete

Score	92.67%	Flagged items	0	Actions	2
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Product/Process Name	Manufacturing Process
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Location	Birmingham, AL 35222, USA (33.5251664, -86.7667756)
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Prepared by	Arlene Nelson
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Conducted on	04.05.2023 19:53 PST
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Actions

2 actions

Inspection / Failure Modes and Effects Analysis / FUNCTION / FUNCTION 1

Potential Failure Mode

Dirty sixups

To Do | Priority High | Due 12.05.2023 17:00 PST | Created by SafetyCulture Staff

Clean fixtures before loading

Use the SafetyCulture app to schedule daily cleaning inspection of fixtures for less particulates and higher yields.

Inspection / Failure Modes and Effects Analysis / FUNCTION / FUNCTION 2

Potential Failure Mode

Overspray from the bottom gun settling on unpainted parts

To Do | Priority High | Due 12.05.2023 17:30 PST | Created by SafetyCulture Staff

Orient bottom gun last

Instead of using ineffective pen and paper setup sheet, we should start doing our tools and equipment check using SafetyCulture. We can take photos as proof that we inspected everything before using them and increase productivity.

Inspection

2 actions, 92.67%

Failure Modes and Effects Analysis

2 actions, 92.67%

Specify the function (process step or input)

FUNCTION

2 actions, 92.67%

FUNCTION 1

1 action, 100%

Function

Fixture cleanliness for loading

Potential Failure Mode

Dirty sixups

To Do | Priority High | Due 12.05.2023 17:00 PST | Created by SafetyCulture Staff

Clean fixtures before loading

Use the SafetyCulture app to schedule daily cleaning inspection of fixtures for less particulates and higher yields.

Potential Failure Effect

High particulates, lower yields

Severity Rating

10
From 0 to 10

Potential Cause

Not cleaned often enough

Occurrence Rating

10
From 0 to 10

Current Controls

None

Detection Rating

10
From 0 to 10

RPN

1000

FUNCTION 2

1 action, 100%

Function

Orientation of gun sets

Potential Failure Mode

Overspray from the bottom gun settling on unpainted parts

To Do | Priority High | Due 12.05.2023 17:30 PST | Created by SafetyCulture Staff

Orient bottom gun last

Instead of using ineffective pen and paper setup sheet, we should start doing our tools and equipment check using SafetyCulture. We can take photos as proof that we inspected everything before using them and increase productivity.

Potential Failure Effect

High particulates, lower yields

Severity Rating

10
From 0 to 10

Potential Cause

Bottom gun is oriented first instead of last

Occurrence Rating

10
From 0 to 10

Current Controls

Setup sheet

Detection Rating

10
From 0 to 10

RPN

1000

FUNCTION 3

93.33%

Function

Booth dynamics and cleanliness for paint application

Potential Failure Mode

Increased airborne contamination

Potential Failure Effect

Higher than normal particulate scrap at the start

Severity Rating

8
From 0 to 10

Potential Cause

Unstable process, needs to reach equilibrium

Occurrence Rating

10
From 0 to 10

Current Controls

None

Detection Rating

10
From 0 to 10

RPN

800

FUNCTION 4

86.67%

Function

Gun setup by operator

Potential Failure Mode

Inadequate preventive maintenance

Potential Failure Effect

Lower transfer efficiency, higher costs

Severity Rating

9
From 0 to 10

Potential Cause

Poor discipline or adherence to procedures

Occurrence Rating

7
From 0 to 10

Current Controls

Maintenance log

Detection Rating

10
From 0 to 10

RPN

630

FUNCTION 5

83.33%

Function

Paint removal filter for basecoat

Potential Failure Mode

Improperly sized

Potential Failure Effect

Create particulates

Severity Rating

8
From 0 to 10

Potential Cause

Improper specification

Occurrence Rating

7
From 0 to 10

Current Controls

None

Detection Rating

10
From 0 to 10

RPN

560

Completion

Full Name and Signature of Facilitator



Arlene Nelson (Process Improvement)
04.05.2023 19:59 PST

FMEA Team

MEMBER

MEMBER 1

Full Name and Signature of Team Member



Marco Bernal (Quality Assurance)
04.05.2023 19:59 PST

MEMBER 2

Full Name and Signature of Team Member



Pearl Deercove (Product Design)
04.05.2023 20:00 PST

MEMBER 3

Full Name and Signature of Team Member

A handwritten signature in black ink on a light gray background. The signature is cursive and appears to read 'Leonard Mulberry'.

Leonard Mulberry (Manufacturing)
04.05.2023 20:00 PST
