Example of Risk Categorizations in an FMEA

Machine/Process: Onboard compressed air system

Subject: 1. Provide compressed air at 100 psig

Description: Intake air, compress the air to 100 psig, and distribute the air (without loss) to the manufacturing tool stations or machine

Next higher level: Compressed air system

Failure Mode	Effects			Causes	Indications	Safeguards	Risk Prioritization			Recommendations/Remarks
	Local	Higher Level	End				Frequency Category	Consequence Category	Risk Index Number	
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
B.No/ inadequate compressed air on demand	No air flow or pressure	No air flow to air-operated valves	Interruption of the systems supported by compressed air	No/inadequate intake air No/inadequate air compression No/inadequate containment of compressed air No/inadequate air distribution flow path	Possibly no air pressure at the gauge on the air receiver or at the gauges for the tool stations (unless the flow path is blocked downstream of a gauge)	Rapid detection of quick interruption of the supported systems	4	2	6	Consider regular monitoring of the pressure differential across the intake air filter Consider checking the rain cap on the air intake annually Consider a redundant compressor
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•