

FMEA - Failure Mode and Effects Analysis

Severity (S) Ranking Chart - FMEA

Effect	Criteria: Severity of Effect On Product (Customer Effect)	Rank	Effect	Criteria: Severity of Effect On Product (Customer Effect)
Failure To Meet Safety and/or Regulatory Requirements	Potential failure mode affects safe vehicle operation and/or involves noncompliance with government regulation without warning	10	Failure to Meet Safety and/or Regulatory Requirements	May endanger operator (machine or assembly) without warning
	Potential failure mode affects safe vehicle operation and/or involves noncompliance with government regulation with warning	9		May endanger operator (machine or assembly) with warning
Less or Degradation of Primary Function	Loss of primary function (vehicle inoperable, does not affect safe vehicle operation)	8	Major Disruption	100% of product may have to be scrapped. Line shutdown or stop ship
	Degradation of primary function (vehicle operable, but at reduced level of performance)	7	Significant Disruption	A portion of the production run may have to be scrapped. Deviation from primary process including decreased line speed or added manpower
Loss or Degradation of Secondary Function	Loss of secondary function (vehicle operable, but comfort / convenience functions inoperable)	6	Moderate Disruption	100% of production run may have to be reworked off line Loss or and accepted
	Degradation of secondary function (vehicle operable, but comfort / convenience functions at reduced level of performance)	5		A portion of the production run may have to be reworked off line and accepted
Annoyance	Appearance or Audible Noise, vehicle operable, item does not conform and noticed by most customers (> 75%)	4	Moderate Disruption	100% of production run may have to be reworked in station before it is processed
	Appearance or Audible Noise, vehicle operable, item does not conform and noticed by many customers (50%)	3		A portion of the production run may have to be reworked in-station before it is processed
	Appearance or Audible Noise, vehicle operable, item does not conform and noticed by discriminating customers (< 25%)	2	Minor Disruption	Slight inconvenience to process, operation, or operator
No Effect	No discernible effect	1	No Effect	No discernible effect