

FMEA Module



Potential Failure Mode and Effect Analysis (FMEA)

- FMEA is an analytical technique utilized by team of Design, Manufacturing Responsible Engineers/ Team Typically, assure that, to the extent possible, potential failure modes and their associated causes/ mechanisms have been considered and addressed.
- Typically, there are two types of FMEA which are widely used in manufacturing industries:
 - Design FMEA; used during development of a new product. It helps engineers understand the impact of potential risks associated with a design. It helps in understanding: What might go wrong with a design? What are the consequences of a specific type of failure? How obvious will the failure be to the user? How is the failure detected? How can we mitigate the effects of a failure on product reliability or safety? How can we prevent failure in the first place?





Potential Failure Mode and Effect Analysis (FMEA)

• Process FMEA:

- It identifies potential product related process failure modes, Assesses the customer effects of the failures, Identifies the potential manufacturing or assembly process causes and identifies process variables on which to focus controls for occurrence reduction or the detection of the failure conditions.
- Develops a ranked list of potential failure modes, thus establishing a priority system for corrective action/improvement considerations.

This Module facilitates generation of FMEA, calculate Ris Priority Number (RPN), planning of your corrective / improvement actions with responsibilities and due dates. After completion of improvement actions, you can recalculate your RPN.