DFMEA - Design FMEA

DFMEA: DFMEA, or Design Failure Mode and Effects Analysis, is typically used in the early stage of the product lifecycle and development as a troubleshooting and assurance process and tool

FMEA:

Failure Mode and Effects Analysis (FMEA) is defined as a regular technique used to inhibit failure. Such action is conducted through the exploration of potential failure modes and the reasons can cause such failure. FMEA actions occur within a team activity by tackling high severity, high occurrence, and high detection rankings that is determined by the analysis. Only through the preventive process of FMEA we can assure the product performance is satisfactory and the chance of the product failure is reduced. The Design FMEA training course will help you explore these steps in detail and learn how to put them in action to prevent the system failure.

Who should attend?

Design FMEA training helps Engineers, scientists, and managers involved with manufacturing, Production and manufacturing team, Product design personnel, Reliability, testing, and quality team members, R&D personnel, Product and process assurance people, Assembly personnel

Benefits

How Design Failure Mode and Effects Analysis (DFMEA) is related to Failure Learn about Design FMEA input and Design Failure Mode and Effects Mode and Effects Analysis (FMEA) output including RPN, severity, Analysis (DFMEA) process and tools and Process Failure Mode and Effects occurrence, and detection rankings Analysis (PFMEA) Learn about Requirements, Potential Failure Modes, Effects of Failure and How to use DFMEA to investigate Severity Ranking, Causes, Prevention Benefits of Design FMEA and treat risk as actual failure Controls, Occurrence and Class including high severity Failure Modes Column, Detection Controls, calculating the Risk Priority Number (RPN) and more How to uncover opportunities to Select an Effective DFMEA Cross How to collect data and information prevent failure proactively prior to Functional Teams (CFTs) in your as part of DFMEA Pre-Work the failures organization

Benefits

Select an Effective DFMEA Cross Functional Teams (CFTs) in your organization

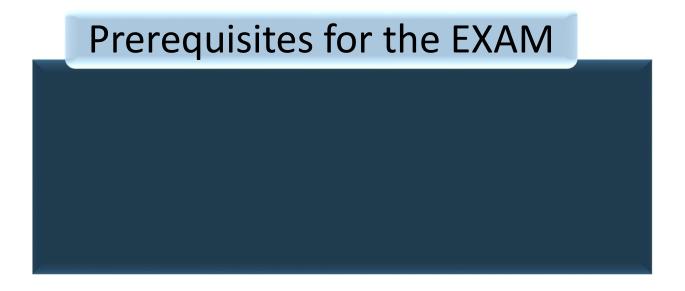
Analyze your process and plan Cross Functional Teams (CFTs) activities and control Use other tools such as Why-Why, Fishbone Diagrams, DOE to enhance your Design FMEA activities

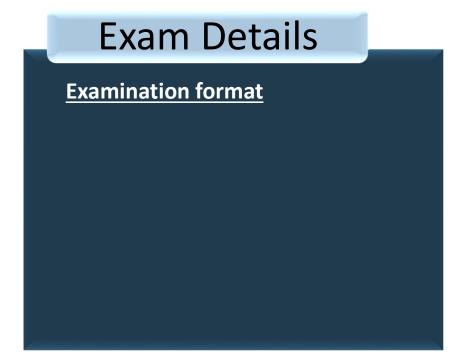
Map design reviews to FMEA Outputs

Use Design of Experiments (DOE) in conjunction with DFMEA

Course Outline

- Explain the concept and the purpose of Failure Mode and Effects Analysis (FMEA)
- Discuss the benefits, requirements, and goals of FMEA
- Decide when to use Design FMEA and when Process-FMEA
- Discuss the steps and process of the FMEA
- Gather up an FMEA team
- Define the Design FMEA scope
- Conduct all the steps of Design FMEA
- Conduct the ranking scales for Severity, Occurrence, and Detection
- Choose the appropriate technology methods to use as supplement to their DFMEA action plan
- Make the Design FMEA into an active document
- Develop a Control plan based on Design FMEA
- Determine corrective actions in order to develop a more correct FMEA





System req.





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