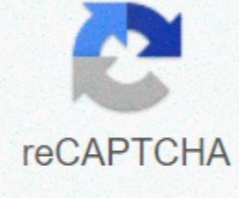




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Aiag' s fmea manual 4th edition released

The revised FMEA process is now represented in seven steps: Step 1 | Planning and Preparation Step 2 | Structure Analysis Step 3 | Function Analysis Step 4 | Failure Analysis Step 5 | Risk Analysis Step 6 | Optimization Step 7 | Results Documentation These seven steps are organized into three phases: Steps 1 through 3 represent the "System Analysis" phase of an PFMEA study. Steps 4 through 6 represent the "Failure Analysis and Risk Mitigation" phase of an PFMEA study. The third phase, Communication, is Step 7. Results Documentation FMEA-MSR A new method has been added called the FMEA-MSR is a supplemental "FMEA for Monitoring and System Response." The FMEA-MSR is intended to maintain a safe state (i.e. safety) or state of regulatory (i.e. environmental) compliance during customer operation. Elimination of the RPN In Step 5 of the FMEA Process, Risk Analysis, the "RPN" is eliminated. What?? That is right, the Risk Priority Number (RPN) is replaced with Action Priority (AP) that comes from a series of tables that define the AP based on the Severity, Occurrence and Detection Ratings. The AP is not a risk priority but rather a priority for action (high, medium or low) to reduce the risk of failure to function as intended. While the RPN encouraged ranking potential failures from high to low, the AP tables define an absolute priority for action regardless of how many other items have been identified in the FMEA study. We too were shocked when we started getting wind of this change to FMEAs. We had a hard time understanding how something that has been a cornerstone to FMEAs, could be done away with. But, as we are becoming more comfortable with the new methodology, it is clear to us that The Action Priority is an improvement over the RPN. Two Types of Recommended Action In step 6, Optimization, "Recommended Action" has been changed to two columns: "Preventive Action and "Detection Action." Subscribe to Learn More About the NEW AIAG-VDA FMEA Methodology Get our FREE Whitepaper, The Practitioner's Guide to 2019 AIAG-VDA FMEAs when you subscribe to our monthly newsletter, The FMEA Advisor. Subscribe to The FMEA Advisor © 1996-2015, Amazon.com, Inc. or its affiliates The AIAG FMEA 4th Edition reference manual has been the guide used by many industries for several years now. In June 2019, the USA-based AIAG and the German VDA published a handbook with an aligned, structured approach for both methodologies during the FMEA development process. The goal of correlating these FMEA methods was to make working with subcontractors easier and to control the cost of quality (COQ). The new AIAG & VDA FMEA Handbook opens up new opportunities for the auto industry and complex systems. The manual updates the classic FMEA methods and the best practices to apply. Next demonstration of our AIAG & VDA FMEA software FMEA means Failure Mode and Effects Analysis. FMEA implementation guarantees that all potential problems have been taken into consideration and that they are managed by applying actions to the product (Design FMEA) or the manufacturing process (Process FMEA). It is a tool to ensure quality in design and production. The AIAG & VDA FMEA Handbook approach has seven steps: The first step is to prepare the FMEA scope for the studied system. This step includes: Identifying the project: Updating the report headings Satisfying the 5 Ts: InTent, Timing, Team, Tasks, and Tools Defining the scope and the boundaries of the FMEA analysis Prioritizing the functions, systems, and process operations We have developed an interface dedicated to "How to prioritize your fmea" in partnership with EURO-SYMBIOSE. Step 2 involves breaking down the tree into system, subsystem, and component elements. It includes: Breaking down the product nomenclature. Structure analysis can be performed by the tree tool or by the block boundary diagram. Breaking down the tree Identifying the studied element(s) Creating the Design/Process links This step identifies the functions carried out by the structural elements. It includes: Identifying and defining the functions (the functional analysis using the NEED Program) Integrating the functional analysis of the Process Creating the tree or function network through a functional block diagram Linking the requirements or characteristics to the functions Defining the functional links through a network and being able to show that your customers' requirements are covered The brainstorming mode lets you open a Parameter Diagram (P-Diagram) for each function. This step in the AIAG & VDA FMEA Handbook describes all of the potential risks by taking into account: An itemization of failures through functional analysis deductions A coherent look at failures beginning at the characteristics of each component up to their effects on the upstream system. This coherence is ensured by the failure chain. Connections between Design FMEA and Process FMEA A coherence of severities throughout the entire analysis Step 5 in the AIAG & VDA FMEA Handbook involves checking the existing detection or prevention criteria and scoring severity, occurrence, and detection. It includes: Identifying the existing prevention and detection criteria Assigning scores for severity, occurrence, and detection Evaluating the AP matrix (Action Priority) The purpose of Step 6 is to determine and schedule the actions needed to lower risk either by reducing the frequency of causes or by improving the ability to detect the causes or modes of failures. It includes: Scheduling actions to reduce the current risks Designating someone to be responsible for the action who is in charge of seeing it carried out Setting a deadline for the action to be completed Defining the projected scores for occurrence and detection Example of the chart listing the actions of the study: Example of an action related to a risk: This step allows automatic generation of reports in formats proposed under the standard to: Disclose the status of actions and the current risks Reveal the actions implemented and how well they worked Present the results and conclusions of the FMEA analysis The bottom line is a common approach to requirements and best practices so that subcontractors have a single FMEA process. By correlating tools and methods to produce robust, precise, and complete FMEA studies, the needs and expectations of customers can be fully met. The ambitious handbook: Combines and simplifies in one single document the recommendations that are the same on both sides of the Atlantic, even if customer specific requirements (CSR) still prevail – Reverse FMEA for Renault and PSA, for example. Better defines risk evaluation rules and helps in decision-making. The scoring tables have been redone with new criteria that can now be personalized. Action Priority (AP) has replaced the Risk Priority Number (RPN). Integrates a system dimension and takes into account the special features for onboard electronics. A whole new chapter is entirely dedicated to this third FMEA type, which supplements Design FMEAs using FMEA-MSRs (Monitoring and System Responses). What will be the impacts of the AIAG & VDA FMEA approach for our customers? Our FMEA software has already integrated the current recommendations with respect to new parameters as a complement to the regular version of our applications (AIAG 4th Edition). The new features for Design FMEAs and Process FMEAs have been available since July 2019. They were updated with changes at the end of that year. FMEA-MSRs will be available soon. Our software comes in French, English, and German from the get-go. To use this approach, you'll need to bring your teams' skills and the software parameters up to speed. Knowledge proposes global solutions with: An audit of your situation Training in the new AIAG & VDA FMEA methodology and parameters Transformation and implementation of compliance for the affected FMEA studies, with the understanding this concerns only FMEA studies linked to new and generic projects. If you already have the software and do not want to implement the new, aligned approach, Knowledge will still maintain your current parameters (AIAG 4th Edition or personalized). More about our FMEA software Next AIAG-VDA & FMEA Webinars The FMEA 4th Edition is a reference manual to be used by suppliers to Chrysler LLC, Ford Motor Company, and General Motors Corporation as a guide to assist them in the development of both Design and Process FMEAs. The manual does not define requirements; it is intended to clarify questions concerning the technical development of FMEAs. Foreword General Changes Tables and Figures Chapter 1 : General FMEA Guidelines Chapter 2 : Overview of FMEA Strategy, Planning and Implementation Chapter 3 : DFMEA Design Failure Mode and Effects Analysis Chapter 4 : PFMEA Process Failure Mode and Effects Analysis Appendices Appendix A : Sample Forms Appendix B : System Level FMEA Appendix C : Alternative Risk Assessments Appendix D : Alternative Analyses Techniques References and Suggested Readings Index

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