

THE PLEX SMART MANUFACTURING PLATFORM

PLEX DFMEA

Quality is key – to building revenue, reputation and retention of employees who want to make quality inherent within their workdays. Today's pursuit of quality in manufacturing requires equipping your entire team with the right tools to monitor quality, and to adopt the perspective that product quality can begin during the design phase. Design Failure Mode and Effect Analysis (DFMEA) helps mitigate design risks from the early idea and design stages all the way through completion.



Comprehensive Quality Management

What makes DFMEA different – and significant – is that it creates a new starting point for a project by including all quality aspects of a product from its inception. Building in quality considerations starting at the idea and design phase creates a strong foundation for reducing errors in the product design as the project moves forward.



Builds a Culture of Quality

Including DFMEA in a QMS means prioritizing quality for more of your team members. This approach brings design engineers into the mix with your product engineers, as well as with operations and other quality stakeholders, increasing communication and access to relevant data to help solve problems before they happen.



Reinforces Processes and Requirements

DFMEA deploys functional requirements that meet the AIAG & VDA FMEA methodology. The DFMEA seven-step process is the same as that of PFMEA but has different focal points that are specific to product design. Its structured, prevention-driven approach leverages past lessons learned and also ensures part-specific considerations are met.

TO LEARN MORE ABOUT HOW PLEX QMS PRODUCTS, INCLUDING DFMEA, CAN SUPPORT YOUR PURSUIT OF HIGHER QUALITY, [CLICK HERE.](#)

PLEX DFMEA

Improves Product Quality

- Builds in product quality before design phase
- Prevents design errors
- Designs quality into the product
- Reduces errors
- Reduces costs
- Provides functional understanding of what will be designed
- Documents design considerations

Bolsters a Quality-Driven Workplace

- Includes and connects more of your team in quality process
- Provides entire team with a functional understanding of design
- Connects project documents and content
- Distributes updates throughout documents
- Monitors content throughout your DFMEAs
- Increases collaboration with shared data

Meets Internal and External Requirements

- Capabilities apply across industries, from automotive to food and beverage
- Continues to meet customer FMEA requirements
- FMEA Software
- Foundation DFMEA
- DFMEA linkage between part-specific and foundation documents

A quality culture embraces feedback from internal and external stakeholders and has established mechanisms for identifying and implementing improvements in all aspects of their operations. There are open lines of communication at all organizational levels. The quality culture understands the need for planning and infuses risk assessments into all of the organization's processes.

**CULTIVATING CULTURE,
QUALITY PROGRESS, JUNE 2023**

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