

# FAILURE MODE AND EFFECTS ANALYSIS

The FMEA method is a development, planning support and risk analysis system of EDAG Production Solutions to identify potential risks in systems, products and processes.



**MAKING IDEAS PERFORM**

## Reliability Engineering

As a globally recognized risk management tool, the Failure Mode and Effects Analysis can be used across all industries and ensures quality in development projects and evaluates/documents all optimization measures during series production. The FMEA method is a development, planning support and risk analysis system to identify potential risks in systems, products and processes. In the context of risk management and quality management, the FMEA is a tool for avoiding failures and increasing technical reliability and limiting risk.

### System-FMEA:

Analyses the interaction of subsystems in a higher-level system network. It aims to identify potential vulnerabilities.

### Design-FMEA:

Early control of functions, production and assembly-orientated design.

### Process-FMEA:

Is based on the results of the design FMEA and identifies possible failures in the manufacturing and assembly process.

### Plant-FMEA:

Determines possible failures in the plant area. The safety and reliability of the plant is considered at this point.

## Goal:

- Avoid costs arising from troubleshooting or enforced error reporting in a later product phase
- Increase production by analyzing and eliminating potential sources of failures
- Improve product quality
- Increase quality awareness among employees, thereby improving quality
- Improve cross-departmental exchange of expertise
- Complete documentation of potential vulnerabilities as legal proof of product safety and product liability

## Service Provision:

- Software-supported FMEA moderation and documentation with APIS-IQ or Excel
- Formal preparation of the individual FMEAs
- Recommendation for the structure of the FMEA
- Moderation based on the AIAG/VDA FMEA Handbook and according to customer-specific requirements.
- Presentation of FMEA results with possible measures
- Follow-up of deadlines for defined measures

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