

# Failure mode and effects analysis (FMEA) in IFS Cloud

Strengthening quality, reliability and continuous improvement

**Failure mode and effects analysis (FMEA)** is a core capability within the quality management suite of IFS Cloud. It provides a structured method to identify how products or processes may fail, understand the causes and effects and prioritise the actions needed to prevent issues before they occur. With design and process FMEA fully embedded in the platform, IFS Cloud offers a single, integrated environment for managing quality and reducing operational risk.

## Why FMEA matters

FMEA helps organisations:

- enhance product quality by identifying failure risks early
- reduce costs by preventing issues before they reach production or customers
- meet compliance requirements where FMEA is mandatory for approval
- drive continuous improvement across product and process design

This ensures that quality is built in from the start rather than corrected later.

## Why FMEA matters

IFS Cloud supports both design FMEA and process FMEA, enabling teams to analyse:

- functional requirements
- potential failure modes
- underlying causes
- effects on safety, quality, production and compliance
- current controls and checks
- recommended preventive and corrective actions

The platform provides structured templates and criteria for:

- classification
- occurrence
- severity
- detection

All assessments follow the standard Risk Priority Number (RPN) calculation:  $RPN = \text{occurrence} \times \text{severity} \times \text{detection}$

## FMEA and FMECA

IFS Cloud includes FMEA as part of its quality management capabilities. In addition, the FMECA (Failure Modes, Effects and Criticality Analysis) function, which supports risk based maintenance within the Enterprise Asset Management area, is available from IFS Cloud 24R2 onwards. This gives organisations access to both quality focused and asset focused risk analysis within one platform.

## How FMEA fits within the IFS Cloud quality ecosystem

IFMEA is one element of a broader quality management suite that includes:

- control plans
- statistical process control (SPC)
- acceptance sampling
- material review board
- audit management
- non conformance management
- corrective and preventive management
- document management

By embedding FMEA within this ecosystem, IFS Cloud supports a closed loop reliability and quality process, ensuring that insights lead directly to improvements in controls, processes and product design.

## Reporting and traceability

IFS Cloud provides clear, system generated FMEA reports that document:

- risk rankings
- identified controls
- recommended actions
- ownership and status

This strengthens audit readiness, consistency and long-term quality assurance.

## Why work with Platned

Platned is an **IFS gold services partner** with deep experience delivering quality, maintenance and reliability solutions across the entire IFS Cloud platform. Our consultants help organisations implement, refine and embed FMEA and FMECA in a way that strengthens quality performance, reduces operational risk and supports continuous improvement.

If you are looking to introduce or optimise FMEA or FMECA within your IFS Cloud environment, Platned is here to support every step.