XFMEA

ReliaSoft XFMEA facilitates the FMEA/FMECA process and provides flexible data management and reporting capabilities.

Features

- Supports all types of FMEA and FMECA to achieve higher reliability, safety and customer satisfaction

- With extensive reporting capabilities, risk discovery tool and flexibility to accommodate all FMEA techniques, you can facilitate any FMEA team workshops/meetings.

- Easily links the FMEA analysis to RBDs and fault trees, and transform the FMEA findings into a representative reliability model of your system.

- Enables you to build a continuous knowledge repository of the FMEA results to be reused throughout the reliability program.

- Supports related analyses such as P-Diagrams, DVP&Rs (Test Plans), Design Reviews Based on Failure Mode (DRBFMs), Process Flow Diagrams and Process Control Plans.

Benefits

- Proactively consider potential failures, prioritise issues based on risk in order to initiate improvements early in development when modifications tend to have the greatest impact for the lowest cost.

- Highlight high risk items using Criticality Analysis or Risk Priority Number (RPN) to achieve higher reliability and safety.

- Save time and promote consistency within your organisation by reusing information and libraries from existing FMEAs.

- Identify, analyse, and improve high-risk elements by utilising charts, reports, automated e-mails, and other features to optimally use your analysis information.

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XFMEA Software Highlights

FMEA standards

- AIAG and VDA 1st Edition
- SAE J1739
- IEC 60812
- ISO 14971
- VDA-4 (German automotive industry)
- MIL-STD-1629A
- Highly configurable to define your own custom profiles

FMEA types

- Design FMEA (DFMEA)
- Process FMEA (PFMEA)
- System FMEA
- FMECA
- Highly configurable to define your own custom profiles

Risk assessment methods

- Risk Priority Numbers (RPNs)
- Criticality analysis
- Alpha/Beta ratio criticality worksheet
- Quantitative Consequence Priority Numbers (QCPNs)
- Priority highlights and configurable risk ranking logic
- Multiple severity scores per effect

Integration with related analyses

- P-Diagrams
- Transfer DFMEA to PFMEA
- DVP&R and test plans
- Control plans
- Process Flow Diagrams and worksheets
- Design Reviews Based on Failure Mode (DRBFM)

Organisation and data structure

- Easy to build system configurations
- 3 Views for data entry
  - Hierarchy (Tree) view
  - Worksheet view
  - Filtered view

Easy to find and reuse data

- Browse or query to import existing data
- Use keywords to find and import existing record descriptions (including Smart Add tools)
- Copy/paste and drag/drop
- Track ancestry of each record

Tools and utilities

- Custom query utility
- Customised templates for imports, queries and reports
- Change log
- Analysis planning tool
- Links and attachments
- Find and replace
- Action alerts via e-mail, SMS text message
- Cause and effect diagrams

Predefined reports

- FMEA/FMECA worksheets
- Control plan worksheets
- DVP&R worksheets
- DRBFM worksheets
- Other tabular reports (e.g., Causes by RPN, Actions by due date, etc.)

Graphical Charts

- Bar charts (e.g., Top 10 failure modes by RPN, top 5 effects by severity, etc.)
- Pie Charts (e.g., Actions by status, Controls by type, etc.)
- % Reduction in RPN
- Occurrence/Severity Matrix
- FMEA/FMRA dashboards

Import types

- Microsoft Excel® - build and manage custom templates for import/export
- Import from RCM++, MPC and XFRACAS

File output

- Microsoft Excel® and Microsoft Word®
- Easily export to *.pdf, *.rtf or *.html from Word or Excel

Reliability program integration

- Use published models to define the reliability characteristics of items
- Work with a Failure Modes and Reliability Analysis (FMRA) that is synchronised with BlockSim
- Use FMEA data to build fault trees in BlockSim
- Share system configuration and failure mode data with XFRACAS
- Import data from an MPC analysis
- Push calculated/ simulated reliability and availability to metrics

Available services

- Detailed user documentation
- Practical example files
- Quick tour guide
- Training for theory + software
- Professional engineering services

For more XFMEA information visit:

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