Relyence

# **FMEA**



### **KEY HIGHLIGHTS**

- SAE, AIAG, AIAG & VDA FMEAs
- MIL-STD-1629, Piece-part FMECAs
- DFMEAs, PFMEAs, FMEA-MSRs
- Boundary Diagrams, P-Diagrams
- DVP&R, PFD, PCP
- FMD (Failure Mode Distributions)
- Always-in-sync<sup>™</sup> technology
- Knowledge Banks™
- Workflow, Approvals & Notifications
- Data Autoflow<sup>™</sup> & SmartSuggest<sup>™</sup>
- Audit Trails, Dashboards
- Zero-client, browser-based

## **Failure Mode and Effects Analysis**

Relyence® FMEA (Failure Mode & Effects Analysis) is your all-in-one package supporting every element of failure mode analysis: Boundary Diagrams, P-Diagrams, Design FMEAs (including DVP&R), Process FMEAs (including Process Flow Diagrams and Control Plans), FMEA-MSRs, and FMECAs. Complete customization options allow tailoring to your needs.

**Compliant and Custom FMEAs.** Relyence FMEA supports the commonly used FMEA methodologies including SAE J1739, ARP5580, AIAG, AIAG & VDA, MIL-STD-1629, IEC 60812, as well as the automotive standards of Daimler Chrysler, Ford, and GM. Relyence FMEA also supports piece-part FMECAs per MIL-STD-1629 and includes the FMD (Failure Mode/Mechanism Distributions) database. Built-in templates are available for quick start up, and you can easily modify the templates to suit your needs. Alternatively, you can create a completely custom worksheet to match your requirements.

**FMEA Efficiency.** With Relyence FMEA's unique *always-in-sync*<sup>™</sup> technology, you can rest assured that your FMEAs remain organized and complete. Relyence FMEA maintains data connections between all phases of your analysis - Boundary Diagram, P-Diagram, Design FMEA, DVP&R, Process Flow Diagram, Process FMEA, and Process Control Plan. Relyence FMEA ensures that no elements of your failure analysis are omitted or overlooked.

**The Relyence FMEA Advantage.** Relyence FMEA's acclaimed *Knowledge Banks*<sup>™</sup> streamline your FMEA activities by providing data reuse and automatic change synchronization. Use the Action Library and fully customizable Workflow, Approvals, and Notifications features for unparalleled process efficiency. Other high-powered features include autocomplete, RPN and AP calculations, the innovative *FMEA Data Autoflow*<sup>TM</sup> & *SmartSuggest*<sup>TM</sup> for superior data management and control, audit trails, support for custom Formulas, FMEA-Fault Tree linking, and *Failure Direct Connect*<sup>TM</sup> for FMEA-FRACAS integration. In addition, our device independent platform enables you to perform FMEAs on your PC, Mac, tablet, or smartphone.

**Dashboard for FMEA.** The Relyence FMEA Dashboard provides an at-a-glance overview of your FMEA information. Combining all the data you need for quick assessment, the Dashboard offers the ability to monitor and manage your FMEAs with efficiency and effectiveness with a choice of customizable widgets. This focused overview enables you to

s	PD F	Process Flow Dia	aram PW PE	AEA Worksheet	CP Control Plan						
o Dashboard Example	0	0 0 0		Knowledge Bank + Cu							Process FMEA +
;	T	Step Number	Process Step	Failure Mode	Product Characteristic	Failure Mode Severity	Effect	End Effect	Effect Severity	Cause	Process Characterist
ign FMEA	1	50.05	Get size 10 socket and 4 bolts with 6mm diameter	Incorrect socket retrieved		3	bolts	Camera cannot be attached to drone	3	Sockets of similar sizes not distinguishable	
s	2		Calerhood	Incorrect bolts retrieved		3	Bolts too large, do not fit	Camera cannot be attached to drone	3	Incorrect labeling in part supermarket	
iree lity Prediction	з							be attached to drone		Bolts of similar sizes not distinguishable	
NS	4	50.10	Clamp camera onto drone body			6	camera to drone	Camera cannot be attached to drone	6	Clamp not Eightened enough by operator	
Example	5	50.15	Fasten camera to drone body with bolts		Camera fastened to drone	6	detaches from	Camera not firmly mounted to drone		Bolt not torqued to required level	Bolt torque
t/Export >	6							Camera not firmly mounted to drone			
sis Properties 🕨	7	50.20	Visually inspect for gaps between bolts, camera, and drone	Incorrect camera Installation not caught		5	manufactured	complaint received	5	Incomplete work instructions on inspection steps	
	8	50.25	Correct camera installation on drone body	Camera not securely fastened to drone	Camera fastened to drone	6	detaches from	Camera not firmly mounted to drone		Bolt not torqued to required level	Bolt torque
	9							firmly mounted to drone			
		50.30	Remove clamp from	Clamp not removable		3	Have to	Loss of	3	Clamp gears stuck	

quickly gauge system health, proactively maintain your quality objectives, and turn insight into action.

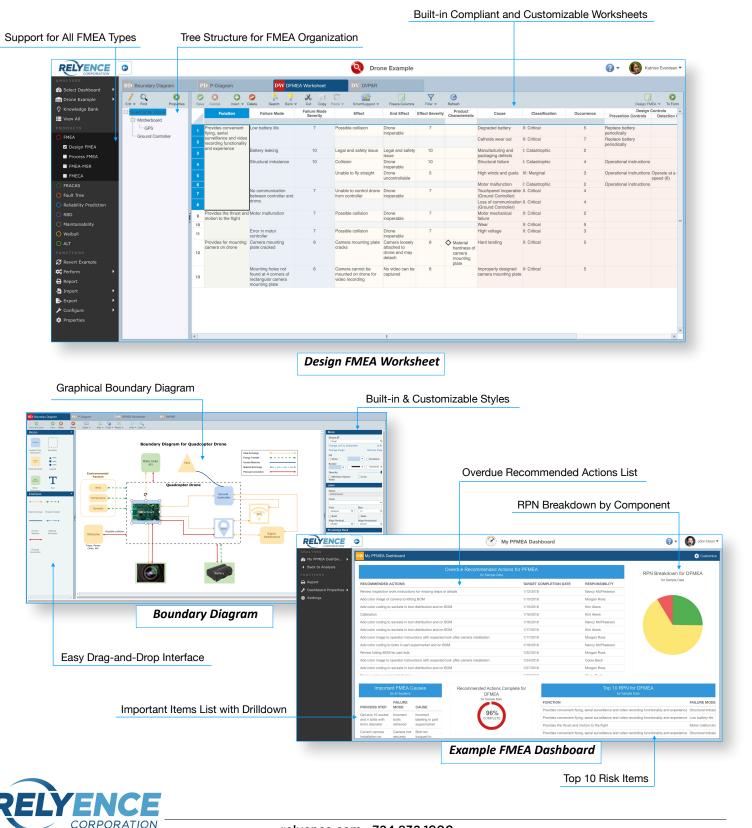
**Deployment Choice.** Relyence FMEA, as all Relyence software tools, is built on the Relyence Platform - a highly adaptable and mobile-friendly framework constructed with today's workplace in mind. Relyence FMEA can be installed on-premise at your location, hosted in the Microsoft Cloud to take advantage of Microsoft's industry-leading Azure platform, or hosted in your own private secure cloud. All platforms offer the same features and functions. The choice is yours!

#### relyence.com · 724.832.1900

## **Failure Mode and Effects Analysis**

### Offering collaboration, effectiveness, compliance, and connectivity in one comprehensive platform.

**Relyence FMEA** 



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