



## Understanding Your Reliability Needs

Your company's goal is to make quality products that meet or exceed your customers' requirements. If you are in the aerospace, automotive, electronics, semiconductor, pharmaceutical or any general manufacturing industry that complies with quality standards, then you perform Failure Mode and Effects Analyses along with other analytical methodologies in your quality plan.

## Challenges of Quality Planning

Your company strives to conduct an efficient and thorough quality planning process in order to remain competitive. Yet even with the best strategy in place you can run into a number of significant implementation challenges with serious implications:

- ❖ Cross-functional and multi-disciplinary teams work to make improvements and simultaneously drive revenues and meet production goals. This can make risk analyses a daunting task for an overburdened workforce, resulting in costly mistakes.
- ❖ Inadequate, improper, and inconsistent failure analyses will result in lower quality products, possible rework of parts, recalls, commercial embarrassment, loss of company and product reputation, and potential liability costs.
- ❖ Organizations that use first generation software tools for risk analyses get inundated with enormous and cumbersome documentation over time. As a result, they react to random variations in the manufacturing process, constantly change priorities, and wait for customers to identify performance issues. This is clearly a recipe for failure.

## A Solid Solution - From Start to Finish

Companies are building infrastructures including dedicated applications for their quality planning to meet market demands more efficiently and cost-effectively at all stages of their business life cycle. Your quality plan involves understanding customer requirements, establishing product and process characteristics, performing failure analyses, and using the appropriate testing, measurement and inspection methods to reduce deviations in your manufacturing processes.

**Accomplish all this and more - FMEA-Pro 7** offers a user-friendly, reliable, flexible, and knowledge-based solution. Spend more time engineering, and less time documenting.

## Why FMEA-Pro?

**FMEA-Pro** is an all-in-one software solution that provides corporate consistency and assists with compliance with industry and company standards. It helps to better analyze product designs and manufacturing processes, dramatically shorten study time, achieve more thorough studies, and prevent failures from happening in the first place.

**FMEA-Pro** has become the standard tool of choice for thousands of companies world-wide including Fortune 500 companies. They are embracing FMEAs and various reliability techniques as an integral part of better business practices and demanding that their suppliers do so as well. Companies at all levels in the supply chain use **FMEA-Pro** to stay viable in the market.

It is a proven technology that has been in commercial use for over ten years.

## Knowledge Base - Achieve More Rigorous Studies

The key to a speedy, comprehensive and precise FMEA execution is to ensure your team has access to the right information when it is needed. **FMEA-Pro** comes well equipped with comprehensive professional libraries to help you brainstorm and generate new ideas more easily, and enter information quickly and efficiently in your studies. Past studies can be reused to retain valuable corporate knowledge and intellectual property, including past failures and lessons learnt.

## Data Management - Reduce Study Time

Data linking features reduce the amount of time and effort required to finish a project by connecting the process flow chart, the FMEA, and the control plans of your quality plan. These features increase consistency across your studies by automatically replicating data in the appropriate areas. Data mirroring permits you to link data selectively to avoid duplication of work and ensures that your studies are updated when future changes are made. The Linked Diagram feature provides a visual representation of data by linking worksheets to the process maps. **FMEA-Pro** gives you an unrepeated list of your recommendations in a separate professionally pre-formatted table with references hyperlinked back to the worksheets. This sophisticated tracking and management of recommendations allows you to record and track progress.

## Flexibility - Meet Your Changing Needs

**FMEA-Pro** is in use in a wide range of industries due to its flexibility and ability to easily adapt to a wide variety of analytical techniques and templates. You can easily develop and establish an intuitive solution as per your own organizational requirements. **FMEA-Pro** accommodates various worksheets and forms related to FMEAs and quality planning. Companies have a value added, quality focused, and innovative solution with **FMEA-Pro** for streamlined and effective implementation of their quality plan.

The screenshot displays a 'Process FMEA' table for 'Left Hand RH10000A'. The table includes columns for 'Process Name', 'Problem', 'Cause', 'Effect', 'Severity', 'Occurrence', 'Detectability', 'Risk Priority Number (RPN)', and 'Action'. The table is populated with several rows of data, each representing a different failure mode and its associated risks and recommended actions.

Process Name	Problem	Cause	Effect	Severity	Occurrence	Detectability	RPN	Action
Left Hand RH10000A	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...
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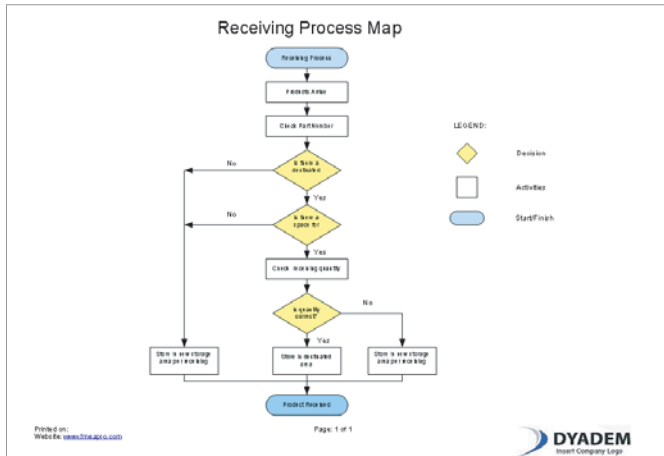
Printed on: 25/09/2005  
Created using: www.dyadem.com

**DYADEM**  
Smart Company Logic

## Multiple Features - Empower Your Teams

FMEA-Pro has many other powerful and unique features that make your life easy and productive. Using **FMEA-Pro**, organizations are able to:

- ❖ Delegate FMEA projects on the basis of employee interest since FMEA-Pro is easy to learn and use.
- ❖ Keep documentation live as required for compliance with major industry quality standards.
- ❖ Give employees freedom to do tasks their own way through access rights and data protection features that prevent unsolicited modifications.
- ❖ Mutually agree on results and performance due to easy sharing of information.
- ❖ Encourage employees to define scope, implement studies, and communicate progress on actions taken by use of a standardized corporate template.



## User-friendly Interface - Provide Expert Guidance

Preformatted industry standard templates and sample studies minimize preparation and execution time and maximize the thoroughness of your studies. They lead your team through a logical sequence of steps to complete the studies. This allows your cross-functional and multidisciplinary teams to be accurate and consistent. The Workspace area provides a visual summary of the study, giving quick and easy access to specific information within the hundreds of pages of information. Costly errors due to onerous and cumbersome documentation are now a thing of the past.

## Data Transparency - Create Professional Documentation

Advanced professional reporting features, preformatted print reports, and the auditing tools of **FMEA-Pro** software give organizations improved visibility into their process operations. These features filter your reports according to your requirements and allow you to share your information in a variety of formats, for easy and controlled access by both internal and external customers. Failures that would normally slip through the cracks due to overwhelming documentation are now much more likely to be detected.

## Regulatory Compliance - Keep Current with Standards

**FMEA-Pro** helps organizations with the implementation of their corporate-wide quality, risk, and reliability programs based on company or industry standards and guidelines including:

- ❖ SAE J1739, ARP 5580
- ❖ QS 9000, ISO 9000
- ❖ Advanced Product Quality Planning (APQP)
- ❖ Reliability Centered Maintenance (RCM)
- ❖ MIL STD 1629A, 882

**FMEA-Pro** supports the following techniques, to name a few:

- ❖ Design and Process FMEA
- ❖ Machinery, Functional, Software, Interface, and Detailed FMEA
- ❖ Failure Mode and Effects Criticality Analysis (FMECA)
- ❖ Control Plans, Design Verification Planning and Reporting (DVP&R), Gage Plans
- ❖ Process Mapping, Process Flow Charts
- ❖ FMEA-based Reliability Centered Maintenance

To learn more about FMEA-Pro, visit our website at [www.fmeapro.com/V7](http://www.fmeapro.com/V7) and download a trial version today.

Using the right tool means getting the right results.

## About Dyadem International Ltd

Dyadem is a global technology company providing software and services that empower you to mitigate risks, achieve regulatory compliance, plan for business continuity and improve your profitability. We aspire to be the largest engineering software company with leading-edge information technologies, deep industry and business process expertise, highly skilled resources and a proven track record.

We have extensive relationships with the world's leading companies and governments, and work with organizations of all sizes. Our expertise in the oil & gas, petrochemical, automotive, medical device, aerospace & defense, mining and engineering sectors gives us a thorough understanding of industry evolution, business issues and applicable technologies, enabling us to deliver innovative solutions tailored to each client.

Our solutions cover a wide scope of risk management: Project Management, Process Safety, Security & Vulnerability Analysis, Workplace Safety, and Reliability & Quality Control. These cost-effective solutions yield maximum value from your investments by enabling you to address unique industry challenges, gain competitive advantages, reduce costs, increase productivity and improve customer satisfaction.

## Training and Workshops

Dyadem's in-house and on-site courses and refresher training provide up-to-date techniques, methodologies and interactive workshops that enable participants to act as study facilitators using standard industry examples or examples customized to their facilities. We recognize the value of hands-on training to complement the necessary conceptual content of our training courses. We structure each of our courses so that at least 40% of the time is spent in a workshop format.

Our software training courses examine the many user-friendly and timesaving features of our software. Participants learn how to thoroughly document all of the information required for their study. Other topics cover the software's advanced security features, report generation tools, extensive built-in libraries, and document protection.

## Publications

Dyadem Press is a respected publisher of engineering guidelines that provide expert advice on conducting and documenting risk analysis studies. No matter what industry your company belongs to, you will benefit from the decades of engineering knowledge contained in these thorough and easy-to-read manuals. Visit our website to read detailed abstracts of these publications, and then order them online today.

## Customer Support

Dyadem is committed to delivering the best possible service to help you. We do this by providing dedicated, fast and high-quality technical support, including 24/7 online help. We thrive on your success and we are confident that our technical support gives you a distinct advantage by ensuring that you get the most value from your software purchase.



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