Rektron FMEA – a way to safer products

Experience has shown that use of computer-based aid helps you to do FMEA analyzes in half the time compared to manual methods.

Right from the start!

FMEA limits the cost

Malfunction cost

Idea
Prototype
Mass production
Ready to use / customer

Rektron FMEA

Flexible tool for following FMEA analyses
- Design
- Development
- Process
- Environment
- Contract review
- Follow-up
- Product review
- General risk analyses

Start from existing projects or use parts from Component archive

Is this useful for me? Let’s say that you create a project that you know will contain parts of information that you have already entered into an earlier project. Why enter it all again? Instead, get those projects that you know are involved, and use the commands that exist for copying/moving information.

- Don’t forget that you have to complement, analyze, risk estimate and evaluate your new parts of project.
- It’s the time-demanding handling that you make more efficient.
Alternative ways of working

- Create an FMEA project by using information from similar projects. Combine, delete and add information to create the new project.
- Create an FMEA project by using an already existing project. Change and complement the project using parts of projects from a Component archive.
- Examples of parts of projects that can be moved to a Component archive are already carried out analyzes of incoming inspection of material, feeding, soldering, drilling, milling, packing, etc.
- You can use Rektron FMEA in a network, where only authorization and the number of simultaneous users are limiting the availability within the company.

**Process FMEA**

Project: Battery AA
Part of project: Cover
Assembling
Welding

**Component archive**

Cover
Assembling
Label
...
...
Control
Packing

1. **FMEA Project Battery A1**

1. Archive parts of project to component archive.
2. Create a copy of Battery AA and save as Battery A1.
3. Complement with more parts from the Component archive.
4. Analyze all existing parts, complement with new failure modes, causes and actions. Print and save Battery A1 in Process FMEA.

**Store parts of project in the Component archive**
Rektron FMEA

An FMEA analysis contains important information that can cause considerable damage if it falls into the wrong hands. Therefore, Rektron FMEA is equipped with several security levels controlling authorizations and accessibility.

The Administrator always has full access and can change existing FMEA variants and create new FMEA variants. Naturally, Rektron FMEA can also be used in networks with full security.

- If FMEA analysis is new to you - contact us. We have valuable information.

Tree structure

The structure is according to the family tree which makes it easy to see the connections between process phase, failure modes, causes of failure, effects of failure, classifications, etc. With two severity scales, (Customer Effect and Assembly effect) according to QS9000 Third Edition.

Headings

Headings and subprojects are used to get a total overview. All process phases belonging to a heading can be “hidden” when the focus is not on this particular part of the project.

Numbering process phases

Each process phase is given a serial number to make it easier to orientate oneself in parts of processes and selections.

Printouts

Printouts are regulated by QS/ISO9000 standard formats with texts and logotypes custom made for each company. It is also possible to select print formats suited for distribution via Internet/Web.

Selections and risk profiles

To make it easy to see relations and priorities it is possible to create selections. Selections can be based on severity, personal injury, actions, RPN, actions taken by, date for action, etc.
### Printouts according to QS9000 Standards, easy to overview

<table>
<thead>
<tr>
<th>Process (Subprocess)</th>
<th>Failure modes</th>
<th>(Causality of failure)</th>
<th>Seq.</th>
<th>Control of failure</th>
<th>Severity (Ser)</th>
<th>Detection adequacy</th>
<th>Detection ability</th>
<th>AQGW (Proportional)</th>
<th>AQGW (Proportional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>Wrong info, wrong change, short circuits, broken led</td>
<td>Wrong polarity, crass, equipment</td>
<td>1</td>
<td>Answer responsible for persons who make the errors.</td>
<td>9</td>
<td>9</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Printouts according to QS9000 Standards, easy to overview.
Rektron FMEA – Network installation

- Rektron FMEA – according to QS9000, Third Edition

### Fixed number of licenses

- Install the software on as many workstations as the number of licenses permits.

<table>
<thead>
<tr>
<th></th>
<th>1off</th>
<th>2-4off</th>
<th>5-9off</th>
<th>10-15off</th>
</tr>
</thead>
<tbody>
<tr>
<td>65401430/-1</td>
<td>Rektron FMEA, v3.4, Single user version database version, including installation CD and manual.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65401431/-1n</td>
<td>Rektron FMEA, v3.4, Professional Edition, database version, including installation CD and manuals. Multiple users.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

System requirements (minimum): Windows 2000/XP, 200 MHz, 128 MB RAM, 200 MB HD, SVGA (1024x768 is recommended.).

### Floating number of licenses

- Install the software on as many workstations needed. The simultaneous number of users is limited to the number of licenses. Permit the whole company to use the software for a minimum cost!

<table>
<thead>
<tr>
<th></th>
<th>1off</th>
<th>2-4off</th>
<th>5-9off</th>
<th>10-15off</th>
</tr>
</thead>
<tbody>
<tr>
<td>65401431/-F</td>
<td>Rektron FMEA, v3.4, Professional Edition, database version, including installation CD and manuals. Multiple users.</td>
<td>At least 2</td>
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<td></td>
</tr>
<tr>
<td>FU65401431</td>
<td>Rektron FMEA, v3.4, Professional Edition (Evaluation version)</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

System requirements (minimum): Windows 2000/XP, 200 MHz, 128 MB RAM, 200 MB HD, SVGA (1024x768 is recommended.).

### Support and Program Upgrading Agreement

- A Program Upgrading Agreement includes free support and free program upgrades.

<table>
<thead>
<tr>
<th>u-agreement</th>
<th>Free phone/Internet support and free program updates. Payment/year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Considering the fast computer development an upgrade agreement is an important link between you, as users and us, as product developers. It automatically gives you new program versions and adjustments to new computer environments. Phone support/u-agreements do NOT include education in how to use the program (this is described in the documentation)</td>
</tr>
<tr>
<td></td>
<td>10% of license costs 12 months from delivery Extended yearly</td>
</tr>
</tbody>
</table>

### Installation and education

- Our experience shows that a good start is necessary to achieve quality, efficiency and to reduce costs.

<table>
<thead>
<tr>
<th></th>
<th>Costs/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>Network installation, Start-up, and general information, for managing the system</td>
</tr>
<tr>
<td></td>
<td>costs/day</td>
</tr>
<tr>
<td>Education</td>
<td>FMEA Method, education and software training, QS9000, education material.</td>
</tr>
<tr>
<td></td>
<td>costs/day</td>
</tr>
<tr>
<td>Travels</td>
<td>Travel costs, expenses and hotel costs will be invoiced for actual costs.</td>
</tr>
<tr>
<td></td>
<td>Actual</td>
</tr>
</tbody>
</table>

www.rektron.se e-post: sales@rektron.se