



Inspect and improve



SABATON [saba'ton],
piece of armour
covering the foot.



WHEN YOU THINK
EVERYTHING IS ALL RIGHT

[THINK AGAIN]

Sabaton^{FMEA} lets you make in depth
analysis of failure modes and system
improvements.

With Sabaton^{FMEA} you perform FMEA or FMECA analyses. FMEA (Failure Mode and Effects Analysis) and FMECA (Failure Mode, Effects and Criticality Analysis) are typically used in product and system development to reveal possible failures and failure modes, and the effects of these failures. The analysis results typically in proposals for design improvement aimed at eliminating system failure or mitigating the effects of component failures.

SUMMARY OF MAIN FEATURES

- Developed to support you conducting analyses according to international standards such as ISO 9000, SAE J1739, SAE ARP5580, IEC 60812, BS 5760-5 or MIL-STD 1629.
- Includes functionality to increase the efficiency of conducting analyses, as well as keeping track of the analysis progress.
- Very flexible analysis form set up. The user may change the layout of the analysis when starting a new analysis, but also for an ongoing analysis. Analyses can be saved as new “analysis templates”.
- Hierarchical system break down with up to eight system levels.
- Calculation of RPN-number and other measures through fully user definable equations. (*Pro. version only*)
- Criticality analysis by use of criticality or risk matrix. Fully user definable matrix set up. (*Pro. version only*)
- Application of failure mode libraries, and common failure mode libraries may be defined and shared by all users. Different libraries may also be defined e.g. for different equipment types (*Pro. version only*).
- Keeps track of analysis team members and a revision list of the analysis.
- Very flexible reporting capabilities applying user definable analysis report templates (*Pro. version only*). All reports can be saved in PDF format for electronic distribution. Other export formats are also available.

- All labels and other text that on the analysis form may be edited, thus analysis reports can be set up in other languages than English (even though all user interface is in English).

EXAMPLE SCREEN PICTURE – FROM THE ANALYSIS SCREEN

The screen picture below gives an introduction to how an analysis is performed. The defined system hierarchy is given to the left, whereas the analysis form is given to the right. The analysis form is split in two; the upper part showing information about the current component (or level); the lower part containing the failure modes identified for the current component. Note that all failure modes identified for components below a selected system level also may be listed and edited simultaneously.

S	ID	Description of failure			Effect of failure		Failure rate	Severity ranking	Risk reducing
		Failure mode	Failure mechanism	Detection of failure	On components in the	On the system function			
	FM001	FTO - Fail to operate	Failure to raise alarm upon high level.	How to ...	V1 does not close.	Væskenivået kan stige til meget høyt nivå.	3-Occ	2-Maj	Measure...
	FM002	SPD - Spurious operation	Spurious high level alarm.	How to ...		Væske tilstrømning stanser utilsikket. Forbruker kan få tapt tilførsel.	4-Pro	1-Min	Measure...

Sabaton^{FMEA} AND Sabaton^{FMEA} Pro

Sabaton is available in two versions; the standard version and the Professional (“Pro”) version. The main differences between the standard and Pro version is given in the list of main features above.

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