FMEATOOL TRAINING IQ-RM PRO 7.0

FAILURE MODE AND EFFECTS ANALYSIS



FMEA Tool Training Seminar Modules

TQ011 FMEA Basic Seminar

▶ Duration: 2 days

- ▶ Content:
 - Knowledge of the FMEA method
 - Work in the FMEA team

TQ013 FMEA Moderator Seminar

- ▶ Duration: 2 days
- Content:
 - Consolidation of FMEA methods for moderators
 - Moderation and questioning techniques
 - Organization and moderation of FMEA teams

TQ012 FMEA Tool Training IQ-RM PRO 7.0

- ▶ Duration: 2 days
- Content:
 - Creation and evaluation of FMEA in the tool

TQ014 FMEA Management Training

- ▶ Duration: 4 hours
- ▶ Content:
 - FMEA Basics for Managers
 - Contribution of the executives for a FMEA
 - Benefits of FMEA for executives





Seminar Definition

Aims



You learn the basic functions of the software IQ-RM PRO for FMEA creation and documentation.

Target Group

▶ Personnel from the Development, Design, Testing, Manufacturing, Logistics, Purchasing, Sales and Quality Management departments who act as moderators for FMEA projects and work with the tool.

Prerequisite



► Attendance at the FMEA Basic Seminar TQ011

Content



- ► Workstation & Document Settings
- Personal Desktop
- ► FMEA documented with IQ-RM
- Documentation and analysis
- ► Examples, exercises



FMEA Tool Training Agenda

Day 1

- Presentation of participants
- Introduction and overview
- Software installation, licensing conditions
- Workstation settings
- **Document settings**
- Personal Desktop
- Step 2: Structural analysis
- **Step 3: Functional analysis**
- **Step 4: Failure analysis**
- End-of-day discussion

Day 2

- Review of Day 1
- **Step 5: Action analysis**
- Step 6: Optimization
- Step 7: Documentation (cover sheet, form sheet, statistics, actions)
- Languages and translations
- Variants
- Search functions
- **Customization Manager**
- Concluding discussion

optional





Content and Scope

- ▶ In this seminar the functions of the tool necessary for the application are explained.
- ▶ The software offers a functional scope that goes beyond the creation of an FMEA.
- ▶ Other scopes of the software IQ-RM are not covered, such as:
 - ► Control Plan,
 - ▶ DRBFM (Design Review based on Failure Mode),
 - ► Flowchart,
 - ► FTA (Fault Tree Analysis),
 - Ishikawa (Cause and Effect Diagram),
 - ► CARM (Computer Aided Risk Management).



FMEA Tool Training Software

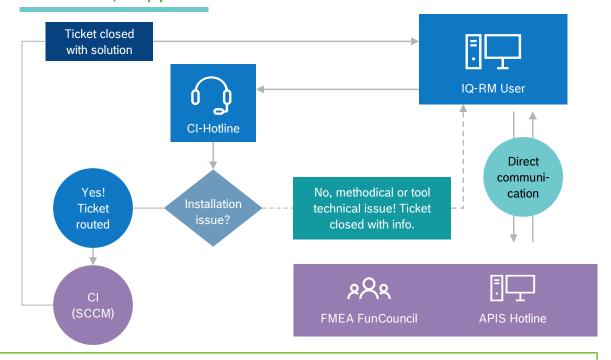
Standardized SW Tool

- Tool selection
- ► Tool development/adjustment
- ▶ Tool allocation/publication
- Cost allocation





CI-Hotline/Support



Current status

- ▶ IQ-RM Pro 7.0 + IQ-CT Analysis 7.0 as Bosch FMEA standard SW (RB Company License)
- ► IQ-RM available through SCCM [RBSM1374]

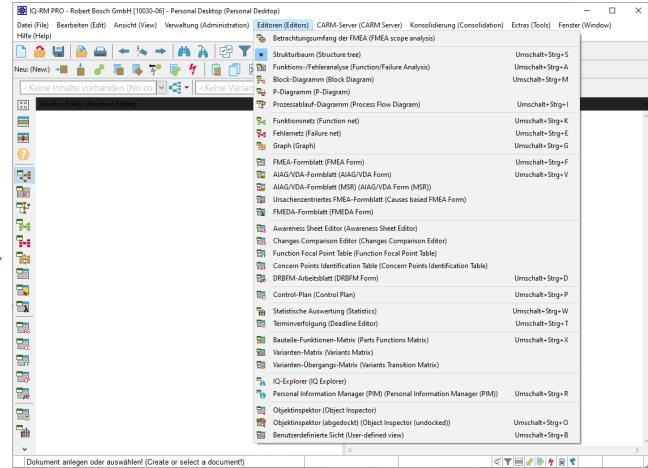


7 Steps of FMEA



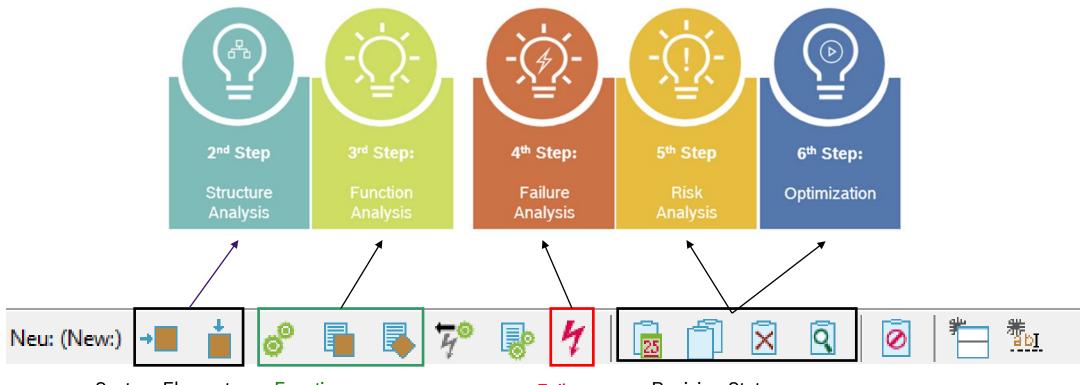


Editors in IQ-RM PRO





Extended Toolbar for FMEA



System Elements
Process Elements

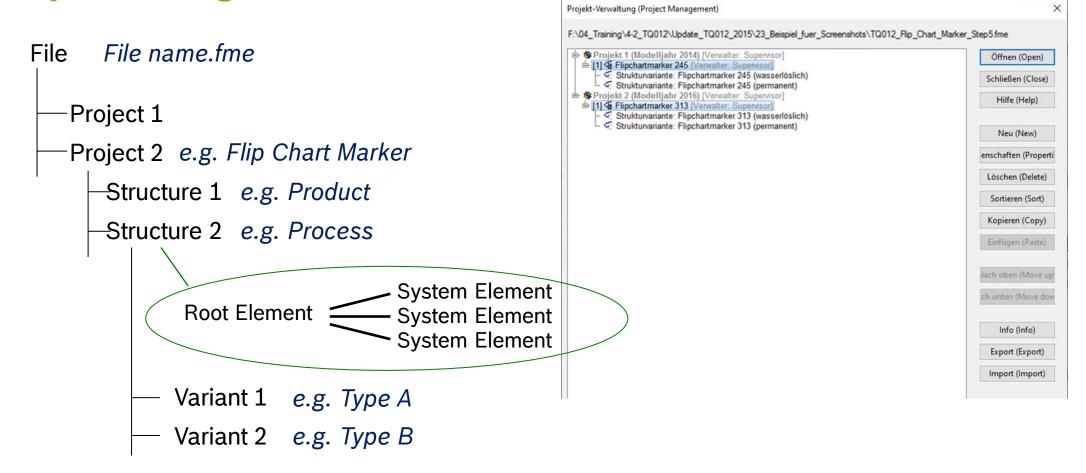
Functions
Product Characteristics
Process Characteristics

Failures

Revision State Actions Group Preventive Actions Detection Actions

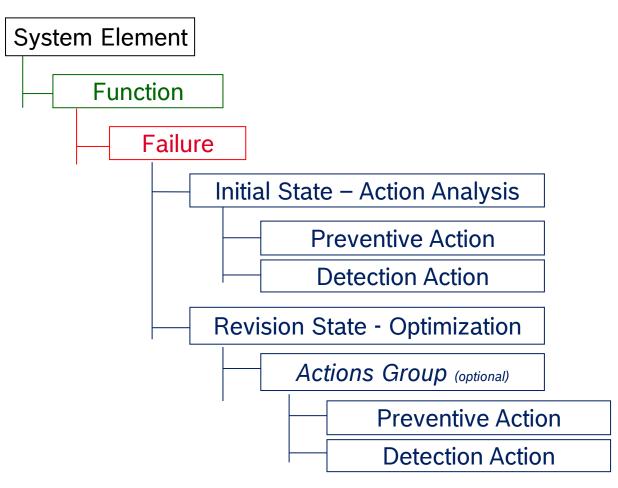


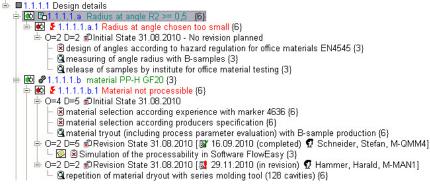
Project Management in IQ-RM PRO





Data model in IQ-RM







Weiterführende Information

► Vorgaben: CDQ0305 (C/QMM)

MM-641.01 (BBM PC)

► Literatur: Heft 14 (C/QMM)

► BGN Seite: FMEA (C/QMM)

► Bosch Connect: FMEA @ BOSCH (C/QMM)

► FMEA-Koordinatoren: FMEA Coordination Group (BEO E-AK042) oder

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