Reliability centered maintenance

ReliaSoft RCM++ facilitates the Reliability Centered Maintenance (RCM) analysis approach for creating effective scheduled maintenance plans.

The software includes configurable capabilities for Equipment Selection, Failure Effect Categorization and Maintenance Task Selection. RCM++ also provides simulations that can be used to compare maintenance strategies based on cost and availability, and a calculator to estimate the optimum replacement interval.

Benefits

- Develop a scheduled maintenance plan for a physical asset that will provide an acceptable level of functionality, with an acceptable level of risk, in an efficient and cost-effective manner.
- Evaluate whether preventive maintenance (PM) is appropriate and determine the optimum preventive maintenance intervals.
- Promote analysis processes that are more efficient and more effective, utilizing lessons learned from past analyses when applicable.
RCM++ software highlights

RCM Standards
- SAE JA1011/1012
- MSG-3
- NAVAIR 00-25-403
- Highly configurable to define your own custom profiles

Support for RCM Logic
- Equipment Selection
  - Yes/No Questions
  - Criticality Factors (Rating Scales)
- Failure Effect Categorization (FEC)
- Maintenance Task Selection
- Highly configurable to define your own logic charts

Maintenance Strategies
- Run to Failure
- Preventive Maintenance (PM)
  - Scheduled Repair
  - Scheduled Replacement
  - Scheduled Service
  - Failure Finding Inspection
- Predictive Maintenance (PdM)
  - On Condition Inspection

Reliability Calculations
- Analytical and/or Simulation Results
- Reliability
- Average Availability
- Operating Cost

Maintenance Planning
- Optimum Replacement Time
- For a Given Maintenance Strategy:
  - Cost per Operating Time
  - Average Availability
- Flexible Task Packaging

Organization and Data Structure
- Easy to build system configurations
- 3 views for data entry
  - Hierarchy (Tree) View
  - Worksheet View
  - Filtered View

Easy to Find and Reuse Data
- Browse or query to import existing data
- Use keywords to find and import existing record descriptions
- Copy/paste and drag/drop

Predefined Reports and Charts
- Equipment Selection
- Functional Failure Analysis
- Failure Effect Categorization
- Maintenance Task Selection
- Maintenance Task Summaries
- Pie, Bar and Pareto Charts

Tools and Utilities
- Custom Query Utility
- Customized templates for imports, queries and reports
- Analysis Planning Tool
- Links and Attachments
- Find and Replace
- Action alerts via e-mail, SMS text message or Synthesis portal message

Import Types
- Microsoft Excel® - build and manage custom templates for import/export
- Import from Xfmea, RBI, MPC and XFRACAS

File Output
- Microsoft Excel® and Microsoft Word®
- Easily export to *.pdf, *.rtf or *.html from Word or Excel

Synthesis Integration
- Use published models to define the RAMS characteristics of items
- Work with a Failure Modes and Reliability Analysis (FMRA) that is synchronized with BlockSim
- Use FMEA data to build fault trees in BlockSim
- Share system configuration and failure mode data with XFRACAS
- Import data from an MPC analysis
- Push calculated/simulated reliability and availability to metrics

Multiple Languages Supported
For details, please visit: http://www.reliasoft.com/languages

Available Services
- Detailed User Documentation
- Practical Example Files
- Quick Tour Guide
- Training for Theory + Software
- Professional Consulting Services

For more information visit: http://rcm.reliasoft.com

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