Managers and maintenance engineers have a responsibility to ensure the acquisition and proper analysis of accurate and relevant data. Today, Maintenance and Reliability Engineers must acquire and extract the “right” data. The degree to which they succeed is measured by their ability to perform reliability analysis. Analysis always precedes policies (called models) for optimal maintenance decision making.

Our Living RCM Certified offering includes:

1. Training: live and eLearning course “Achieving Reliability from Data”
2. MESH cloud software for implementing the Living RCM Certified process.
3. Consulting services to mentor reliability engineers as they perfect their skills in applying the Living RCM Certified process.

MESH Living RCM Certified Cloud

Consists of 7 modules:

- Downtime Administrator System (DAS) module
- Knowledge Builder (KB) module
- Work order user interface module
- Feedback Manager - RCM knowledge feedback module for continuous improvement of the RCM knowledge base
- RCM Knowledge Trail module to track evolving depth of RCM knowledge
- Analytics dashboard
- Synchronization module ensuring three way synchronization among EAM, RCM knowledge base, and field reality.
- Reliability Analysis and CBM Optimization
MESH Living RCM Certified

**Modules**

### Downtime administration system (DAS)

This DAS module is a dynamic table synchronized with the EAM and is the gateway to the Living RCM Certified work order process.

The EAM integrated DAS may interact with an automated work order creation system. When an event requiring a maintenance service is triggered (automatically or manually) a work order is tracked through all its stages culminating in its asset’s return to service with the assurance of analysis grade data for subsequent predictive modeling by the Reliability Engineer.

This MESH Living RCM Certified module identifies and records the changing states of the work order (awaiting parts, tools, repair time, delays etc) where precise measurement and analyze of downtime is required. Dashboards report time bottlenecks impeding the effectiveness and productivity of maintenance.

### Main features of the module:

- Opening and / or close work order from this module
- Manage status changes of the Order, Skills and respective labor times
- Manage parts and labor resources
- Geographically locate the equipment unit
- Check for and incorporate timely PM tasks into the downtime repair
MESH Living RCM Certified

User Interface Module

The Living RCM Certified UI module delivers two primary functions:

1. Accurate, consistent work order failure mode selection and the failure mode life ending event type indispensable for reliability analysis.
2. The ability to provide suggestions for improving an RCM knowledge element, including text changes and the deletion or creation of an RCM knowledge element. Such contributions are vital to the evolution of the knowledge base so that it evolves ever closer to reality.

Continuous improvement in the effectiveness of maintenance depends on the quality of observational information returned by the technician onto the work order. Unlike a conventional EAM user interface, this module infuses precise RCM thinking into the work order data entry procedure. Living RCM Certified makes it almost impossible to select an incorrect EAM catalog value. At the same time Living RCM Certified eliminates the usual frustration and lost time associated with drop down lists of ambiguous failure codes. Accurate data as a result of Living RCM Certified enables the Reliability Engineer to conduct reliability analysis reliability and build optimal maintenance decision models for practical day to day deployment.

Knowledge Builder Module

This module enables you to construct and maintain the RCM knowledge base:

- Supports the development of RCM
- Tree view designed for speed and simplicity
- Tool Tips to assist in the use of Mesh extended options
- Image gallery associated with each failure mode for accurate communication of failure, potential failure and suspension standards
- User configurable criticality analysis
- Excel exports.

(+1)4387923756
Info@livingreliability.com
www.livingreliability.com

Living RCM Certified is a people-oriented process. It sets a motivational model whereby management may appreciate and recognize employee contributions to leading performance indicators.

SINCHRONIZATION

MESH Living RCM Certified functionalities are intimately synchronized with those of the EAM (SAP, Ellipse, MAXIMO and others)
Feedback Manager Module - Management of knowledge suggestions

Your organization’s maintenance knowledge is dynamic, ever changing, and growing. Therefore it should be updated as a built-in continuous process. This module allows you to manage the suggestions by technicians, evaluate the and update the knowledge base accordingly as new experiences and observations accrue. This creative approach to maintenance knowledge management results in the PM plan to respond immediately with an optimal set of consequence mitigating tasks.

This module capitalizes on an important human component. It is the motivational factor that recognizes maintenance personnel contributions to the knowledge base in relation to management’s objectives visibility and key performance indicators (KPIs).

Knowledge Trail

This module keeps track (audits) the changing state of RCM knowledge including changes to the Knowledge Base (creators, rejected changes and accepted). Reliability engineers and managers can see the evolution of the knowledge base in its entirety. The history of knowledge associated with failure mode from its inception to the present may be investigated following safety and other major incidents.

Synchronization module

This module ensures that RCM knowledge base are in perfect synchronization with the EAM catalog (failure code). This functionality is currently lacking in all maintenance EAM organizations which are therefore unable to ensure perfect representation on the work order of failure modes observed by the technician.
Reporting module

Flexible configurable analytics dashboards for viewing initial and evolving RCM knowledge progress, current CBM remaining useful life predictions, failure modes, mitigation tasks, and criticality analysis versus maintenance effort comparisons. These dashboards are unique in that they are based on analytical grade age data assured in the Living RCM Certified process.

**KPIs low level:** Relate directly to team performance. They measure everyday activities that impact high level performance.
- Number of suggestions made to the Knowledge Base
- Number of reliability analyses performed and decision models implemented.
- Number of potential versus functional failures
- Information Quality on the work order

**Lagging (high level) KPIs:** Employees have no direct influence on these.
- Availability
- Reliability MTBF
- Maintainability MTTR
- Costs

**Tech Requirements**

Mesh Living RCM Certified is recommended as a convenient and affordable Cloud service, in which case there are no hardware or software requirements.

If desired, Mesh can reside on your company’s intranet in which case

The MESH hardware requirements are:
- 2 GB min. RAM available.
- 2 to 4 processors / cores available.
- 20 GB of disk space for storing files in the application and the application server.

For intranet deployment, the MESH software requirements are:
- Application Server Java Enterprise Edition v6 - 3.1.2.2 Oracle Glassfish, community version.
- Java Development Kit 7, preferably the latest update recommended by Oracle.
- Oracle Database 11g - Standard Edition.
Benefits

MESH Living RCM Certified procedures contribute directly to the reduction of maintenance costs and increased asset availability.

How much improvement will MESH Living RCM Certified bring to maintenance?

Three sources of all maintenance improvement:
1. a dynamic high quality RCM knowledge base
2. Perfect work order data
3. Reliability analysis

MESH Living RCM Certified ensures high quality maintenance information,

Cost effective solution
- Generate payback of from 10 to 100 times the value of the investment by predicting and preventing failure.
- Living RCM Certified investment returns are evident within 4-8 weeks, in terms of business performance at ground level.