Aspîre

Reliability Centered Maintenance (RCM)

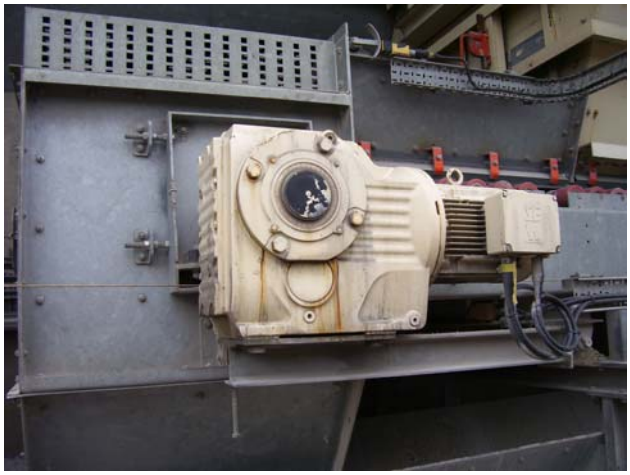
What is RCM?

RCM is the application of a structured method to establish the **optimum Preventative Maintenance** for plant, systems or equipment.

It is an effective, proven methodology for **rationalising maintenance**. It begins by identifying the functionality and performance required from the equipment in its operating context, identifies the way in which the equipment fails and the plausible causes of failure and then details the effects and consequences of failure.

An assessment is made of the criticality of the failure. Where significant safety, operational or cost consequences are identified the methodology allows the selection of an appropriate maintenance task that addresses the identified Failure Mode.

RCM can deliver **cost reductions** and **Availability and Safety improvements**.



For More Information about our RCM services please **CONTACT US.** We will arrange for a Subject-Matter-Expert to talk to you.

About Aspîre RCM

Aspîre use RCM to ensure only that **maintenance essential to the operational requirements** of a Plant is carried out.

Aspîre has an established team of RCM Facilitators, Analysts and Technical Authors. They have many years experience in conducting RCM studies and related technical authoring services to cost and within agreed timescale.

We have a reputation for supplying innovative, practical and cost effective RCM **solutions** and are experienced in conducting RCM analysis either within a holistic Supportability Engineering Programme or as a stand-alone activity. This includes **innovative manipulation of RCM-related data** with software tools to provide innovative project efficiencies.

Aspîre designs a **tailored approach** based on the exact needs of the programme to **reduce the cost** of delivering the final maintenance solution. The cost of RCM analysis is often recouped many times over once maintenance schedules are implemented.

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Aspîre

Aspîre RCM Capability

- Many years experience in conducting Reliability Centered Maintenance (RCM) studies
- Proven reputation for the innovative development of solutions to address RCM-related problems
- Experienced in conducting RCM analysis within a holistic Supportability Engineering Programme
- Respected reputation for supplying innovative, practical and cost effective RCM solutions
- Proven experience in manipulation of RCM-related data with software tools to provide innovative project efficiencies
- Proven track record of delivering quality analysis that is compliant with the relevant standard to cost and within agreed timescale
- Respected RCM training provider
- Independent organisation that provides best advice and practice in relation to RCM activities to both the immediate client and the end customer
- Experienced and proven supplier of RCM related technical authoring services (e.g. Job Plan production)

Aspîre RCM Methodology

RCM is used for the definition of the maintenance requirements of a system.

The strength of RCM lies in the involvement of Operators, Maintainers, Manufacturers and Designers. A key input into this activity is the experience gleaned from in-service experience. This facilitated activity ensures that all relevant perspectives are considered.

Aspîre takes a SMART approach to the RCM element of a programme (i.e. Specific, Measurable, Achievable / Affordable, Relevant and Timely). The core activities are summarised below:

- Identification of the candidate Systems / assets
- Definition of the operating context under which the Plant / asset is required to operate
- Identification of the Functions of Systems to be analysed, their Functional Failures, Failure Modes and the Effects of failure (FMECA)
- Categorisation of Failure Modes according to their criticality and identification of the consequences of failures (FMECA)
- Identification of feasible and effective Preventive Maintenance tasks and task frequencies (RCM Algorithm)
- Rationalisation of task frequencies to enable discrete work packages to be identified
- Identification of work instructions for each maintenance task (Maintenance Task Analysis (MTA) / Job Plans)
- Compilation of a range of required spares and input to scaling modelling

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