

Aspire

Reliability Centered Maintenance (RCM)

What is RCM?

RCM is the application of a structured method to establish the **optimum Preventative Maintenance** for a given platform, system 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 Aspire RCM

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

Aspire 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 that are fully compliant with several Standards and approaches 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.

Aspire 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.

Aspire supports the UK MoD in carrying out RCM studies and associated technical authoring. We have conducted RCM analysis on many weapon systems, missile programs, Marine and Aeronautical Platforms.

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Royal Navy (RN) Landing Platform Dock (LPD)

Aspire was involved in the development of the RN methodology for conducting structural analysis on Ships to **determine structural inspections** and co-authored the structural element of the RN Defence Standard and carried out the LPD (HMA Albion and HMS Bulwark) RCM structural analysis studies.



Hawk Aircraft Assisted Escape System (AAES)

Aspire reviewed the maintenance requirements of the AAES for the Hawk aircraft to **reduce the level of maintenance**. As a result of the study a recommendation was made which reduced the frequency of bay maintenance activities by approximately 30%.

This task has identified considerable **man-hour cost savings, releases aircraft for operations, and also reduces aircraft maintenance down time.**



Chinook Mk3 Helicopter Recovery from Storage

The aim of this task was to **reduce the maintenance activity** required to return to service RAF helicopters that had been in storage.

Aspire designed a methodology that utilised the existing maintenance schedule and took into account storage conditions and potential failure modes suffered during storage to drive out the required preventive maintenance without reducing airworthiness.

BAES Nimrod MRA4 Project

The Aspire RCM Team has made a significant contribution to the RCM analysis on the BAE SYSTEMS MRA4 Nimrod Project. We have significant experience in producing Def. Stan. 00-60 compliant RCM Programme Plans, Reports and analysis.

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