

A Simple Way to Significantly Increase Aircraft Availability!

Reliability Centred Maintenance (RCM) is an effective, proven methodology used to rationalise preventative maintenance by identifying the functionality and performance required from the equipment in its operating context, identifying the way in which the equipment fails and the plausible causes of failure and then details the effects and consequences of that failure. When this methodology is implemented by a well-trained, knowledgeable and experienced team it can have a significant impact on airworthiness, operational effectiveness and Through Life Costs.

Chinook MK 2/2A and 3

Aspire Consulting Limited achieved a **significant increase in the aircraft availability and reduced TLCs of the Chinook Mk2/2A and Mk3** aircraft by changing the maintenance cycle from 2400 flight hours to 3200 flight hours through an RCM Review.

Aspire 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



The **revised preventative maintenance cycle** is now authorized at Primary at 200 flying hours, Primary Star at 400 flying hours, flexible primary maintenance group every 50 flying hours, Minor at 800 flying hours, Minor Star at 1600 flying hours, and Major at 3200 flying hours.

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