

RCM improves effectiveness of ANZAC Platform and Weapon systems maintenance programme

OUTCOMES

- *Reduced levels of scheduled overhaul*
- *Identification of Life extension opportunities*
- *Increased emphasis on Condition-based maintenance*
- *Reductions in high frequency maintenance checks*
- *Improved management of protective systems*
- *Massive reductions in Life Cycle costs*
- *Improved use of rotatable spares pool*
- *Improved system knowledge*
- *Overall RCM investment return measured in weeks*



The Asset Partnership was contracted to assist ANZSPO apply RCM to selected Platform and Weapon systems on ANZAC Class Frigates. Existing maintenance includes a significant level of scheduled overhaul and replacement requiring the vessels to be alongside, reducing mission availability and incurring high levels of scheduled maintenance costs.

The RCM process selected by the Royal Australian Navy for this work was the Royal Navy's Naval Engineering Standard NES 45 (Def Stan 02-45), 'Requirements for the Application of RCM techniques to HM Ships, Submarines, Royal Fleet Auxiliaries and other Naval Auxiliary Vessels'. NES 45 is fully compliant with SAE JA 1011 (*Evaluation Criteria for Reliability-centred Maintenance Processes*).

Systems were analysed using teams composed of specialist RAN staff and OEM representatives. RCM outcomes were recorded in the NES 45 Toolkit software package.

The analysis has resulted in several significant changes to the existing maintenance regime, which, when fully implemented will result in reduced life cycle costs and improved system availability. In particular, there has been a large reduction in the level of scheduled restoration and discard (overhaul and replacement) activity and a shift towards a condition-based maintenance regime.

Further application of RCM is now being conducted on other high criticality assets within ANZAC.



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THE ASSET PARTNERSHIP is licensed by **ALADON** to offer a range of training courses, implementation support and software in Reliability-centred Maintenance throughout Australasia, including:

- 3 day introductory RCM courses for analysis team members
- 10 day RCM Facilitator training programmes
- Senior Management RCM overview programmes
- NES 45 RCM Software (to MOD Def Stan 02-45)
- RCM Toolkit software

Course dates and registration facilities are available at www.assetpartnership.com.

