

Company Facts

Overview

- Location – Victoria
- Industry – Government

Success Highlights

Challenges

- Survivability
- Mobility
- Payload
- Sustainability
- Usability
- Communications

Solution

- RCM II
- MIL-STD-2173
- NAVAIR
- Isograph RCMCost

Benefits

- Customized Training Materials
- Appropriate Maintenance Strategies
- Minimized Operational Risk
- Enhanced Safety
- Enhanced Reliability
- Enhanced Lifecycle Planning
- Continued High-performance



RCM Application For Hawkei Protected Mobility Vehicles

The Business Situation

The Australian Defence Force’s Hawkei Protected Mobility Vehicle represents a cutting-edge capability designed to provide an optimal balance of survivability, mobility, payload, sustainability, usability, and communications. To ensure these performance goals were met throughout the vehicle’s life cycle, the Mantua Group developed a comprehensive Reliability-Centered Maintenance (RCM) strategy.

The Solution

A multi-disciplinary team—comprising Defence personnel, battlefield communications systems integration contractors, and platform specialists—was assembled to undertake the task. The project began with the formulation of a tailored RCM methodology by blending proven approaches, including RCM II, MIL-STD-2173, NAVAIR, and RCMCost. This hybrid method ensured both military rigor and adaptability to the new vehicle platform.

Customized training materials were developed, including presentations, exercises, and technical workbooks that were subsequently delivered to Hawkei team members with the skills to execute the RCM program. Feedback from training sessions was overwhelmingly positive, confirming strong engagement and readiness to proceed.

The Business Impact

The RCM process the Mantua Group developed helped identify critical functions, potential failure modes, and suitable maintenance strategies, ensuring that operational risks could be minimized in diverse combat environments. Ultimately, the process supported the Hawkei’s achievement of Initial Operational Capability in 2021, with rollouts to Army units across Australia.

This case illustrates how structured RCM can enhance safety, reliability, and lifecycle planning for high-performance military assets.

