



*Continuously Pushing the Limits of Innovation, Technology and Conventional Thinking*

## Reliability-Centered Maintenance

**Reliability-Centered Maintenance (RCM)** is an analytical process used to determine an optimum maintenance program using knowledge of failure characteristics and operating experience of physical assets. **RCM** provides recommendations for preventive maintenance tasks, design changes, and equipment and process improvements. **RCM** can be used to determine whether implementing new technology, such as predictive maintenance (PdM), or updating installed hardware is necessary or cost effective. Originally conceived in the 1960's to develop preventive maintenance programs for commercial aircraft, the **RCM** process has been refined and applied in virtually every industry over the past four decades.

### Benefits of RCM

- Improved operating safety
- Hazard risk reduction
- Reduced maintenance and operating costs
- Reduced asset downtime
- Increased asset availability
- Increased equipment life
- Continuous improvement of the maintenance program
- Documentation trail for maintenance decisions
- ROI within weeks or months



*RCM driven logistics support analysis provides an optimal maintenance program.*



*RCM and Condition Based Maintenance systems maximize up-time for critical assets in challenging environments.*

### RCM Advantages for Every Sector

**Original Equipment Manufacturers** leverage our experience and understanding of governmental RCM requirements on new systems. We can perform analysis faster, at a lower cost, with increased customer satisfaction, compared to efforts performed in-house.

**Government** entities rely on our experience with **RCM** for in-service systems to reduce maintenance costs while increasing asset reliability and availability.

**Commercial** enterprises use our extensive knowledge of **RCM** on a broad spectrum of equipment with a SAE JA1011 compliant process that does not require continuing licenses or external support commitments.

**Andromeda Systems Incorporated** provides tools and services to **Program Managers** and **Fleet Owners** to gain critical insights and system improvements to optimize operations, make better business decisions and achieve measurable cost savings. These benefits are provided through four *integrated* service areas: **Engineering, Maintenance & Logistics, Information Technology** and **Program Management & Acquisition Support**.

### Andromeda Systems Incorporated

**Corporate Headquarters** 641 Lynnhaven Parkway, Suite 200 • Virginia Beach, Virginia • 23452-7307

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Maintenance & Logistics



# Solutions Delivered

## Reliability-Centered Maintenance

**Andromeda Systems Incorporated** provides expert, flexible, and cost effective support for developing and implementing RCM-based maintenance programs. Our team has extensive experience performing and implementing **RCM** analysis on a wide variety of systems, using several different processes and implementation methods. Working on behalf of military, government, and commercial customers, we have performed **RCM** analysis on weapon systems, industrial facilities, data centers, power plants, and manufacturing plant equipment. More recently, we have led the industry in the integration of **RCM** with advanced analytical techniques and condition monitoring systems.

- **RCM Analysis**

For customers that do not have the staff or desire to in-source analysis, ASI can provide experienced analysts to perform **RCM**. Our analysts have experience in a wide range of industries and are experts at working with your subject matter experts to ensure the analysis captures relevant internal experience.

- **RCM Integration**

Integration of **RCM** with other initiatives and systems including CBM+, logistics data systems, and maintenance management systems can substantially increase the benefit of **RCM**. We support integration efforts with CMMS such as setting up equipment hierarchies and failure coding structures to providing effective data for the **RCM** process. We perform maintenance task analysis for requirements generated by **RCM** and software interfaces for data flow between logistics, maintenance systems and **RCM**. We integrate automated data collection systems to provide near real-time failure and maintenance data to the **RCM** analysis.

- **Software Development and Integration**

ASI can develop custom software applications to support your specific analysis needs. We are experienced in developing web-based and desktop applications and integrating **RCM** programs with other applications such as CMMS and LSA systems.

- **Consulting, Mentoring, and Facilitation**

Rely on our highly experienced experts to help you set up an internal **RCM** program and provide mentoring until your personnel are ready to perform on their own. Where a facilitated group analysis approach is required, ASI can provide experienced facilitators for the entire analysis or, for a limited time, help develop and train your staff.

- **Maintenance Program Development and Implementation**

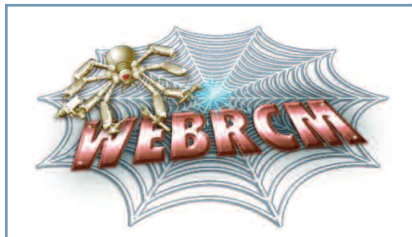
ASI can assist with using the results of **RCM** efforts to develop efficient maintenance programs. We have worked extensively with NAVAIR's Integrated Maintenance Concept (IMC) and Event Based Maintenance (EBM) concept.

- **Training**

Our training options include regularly scheduled classes and on-site courses. On-site courses can be tailored for a specific industry or program.

**Courses include:**

- Fundamentals of RCM Analysis – 3 Days
- RCM Implementation and Advanced Topics – 2 Days
- RCM Executive Overview – 2 Hours
- RCM Concepts Overview – ½ Day
- IRCMS 7.0 Update Course – 1 Day



Visit [www.WebRCM.org](http://www.WebRCM.org)

Used successfully in a variety of industries, this RCM process is completely public domain, free to use by all.

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