

K2 RCM

Reliability
Consulting
Management

Engineering Services & Solutions

www.k2rcm.co.uk



RCM Software
Reliability Programmes
Root Cause Failure Analysis
Asset and Process Optimisation
Maintenance Schedule Optimisation
Reliability-centred Maintenance (RCM)
Training Design, Development, Delivery
DORA - Dynamic Operational Reliability Analyser



RELIABILITY

Increase availability & reduce total cost of ownership of your assets using our Revolutionary RCM Methodology - DORA



CONSULTANCY

K2 RCM can be trusted to focus on your issues, carefully listen and create positive and meaningful change.



MANAGEMENT

We can resolve your management challenges and projects using our highly experienced team.

ABOUT US

K2 RCM are a Courteous, Responsive and Professional Reliability, Consultancy and Management Engineering Services, Solutions and Training provider.

Our aim is to help clients understand, manage and continuously improve the performance of their physical assets and processes in order to optimise maintenance, increase uptime availability and reduce the total cost of ownership. We can effectively resolve your issues.



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CASE STUDIES

www.k2rcm.co.uk

Maintenance Cost Reduction for International Gas Turbine OEM



Situation:

A major Gas Turbine OEM's business model changed, meaning the OEM paid for the cost of maintenance.

What We Did:

We used RCM to review analyse and re-define the work programmes to ensure that each task was sensible, defensible and occurred at the appropriate interval. The maintenance schedule was optimised. We de-tuned overly sensitive instrumentation to provide alarms instead of trips. We extended intervention intervals.

Results:

- 56% reduction in maintenance labour costs for annual interventions.
- A reduction in Control and Instrumentation Engineer resource requirement of around 60%.
- Availability improvements of at least 1.5 days per year per gas turbine from planned maintenance.



Availability Improvement for Centrifugal Booster Compressor

Situation:

The client was facing government pressure to meet contractual obligations on gas supply for domestic use.

What We Did:

We carried out a system diagnostic which identified process critical equipment. We analysed a range of data, maintenance information and operational activities impacting compressor performance. RCM was used to develop a maintenance strategy for the critical items of process equipment to ensure obligations were met.

Results:

- 94% reduction in unscheduled compressor down time.
- An optimised maintenance schedule and spares strategy.
- Improved incident response time.

This project won a Director's Award for Availability Improvement.

DORA SOFTWARE AND RCM METHODOLOGY

www.k2rcm.co.uk/dora



Build New and Develop Existing Maintenance Plans Using Our Revolutionary RCM Methodology.

DORA versions	QM-online	QM	Business	QM-Pro	Business-Pro	Enterprise
Single user	✓	✓	✓			
Multi user		✓	✓	✓	✓	✓
SSL / HTTPS	✓	✓	✓	✓	✓	✓
Backups		✓	✓	✓	✓	✓
Import - Report - Export		✓	✓	✓	✓	✓
Two-factor authentication		✓	✓	✓	✓	✓
Shared server	✓	✓	✓	✓	✓	✓
VPS		✓	✓	✓	✓	✓
Dedicated server						✓
Free QM-online (only 1 FMEA)	✓					✓
Quick Maintenance (Full QM)		✓	✓	✓	✓	✓
Object Driven Maintenance			✓	✓	✓	✓
Reliability-centered Maintenance			✓	✓	✓	✓
Failure reports				✓	✓	✓
Pareto's				✓	✓	✓
Continuous Improvement				✓	✓	✓
PLC connection						✓
Customer demands						✓
E-learning						✓
SLA						✓

DORA is a unique **Process Driven RCM Methodology** coupled to highly functional software and expert RCM training.

Intelligence, results and data generated from DORA can be used back into your business to optimise, learn, build a knowledge base, continuously improve and make informed decisions about your assets and processes.

DORA has 3 Methodologies:

- Dynamic RCM (High Critical Processes)
- Object Driven Maintenance (Medium Critical Processes)
- Quick Maintenance (Low Critical Processes)

FEATURES

- Established and supported since 2004 | Multiple levels available for scalability
- Import and Export data and analyses easily | Varied RCM methodology capable (RCM, RCM2, etc)
- Designed and built by RCM practitioners | Shared secure server capable
- Web based, Excel look, User Interface | Full Training & Consultancy support available

Plastic Container Production Line

Situation:

25 moulding machines were producing plastic containers and lids. Over 50% of all unplanned downtime was hydraulic system related.

What We Did:

RCM analysis was done in DORA on one master moulding machine. All hydraulic failures were reported in DORA. All solutions were reported to DORA to continuously improve the FMEA data. Maintenance plans, processes and Overall Equipment Effectiveness (OEE) was improved.

Results:

- Within 2 years the hydraulic related downtime hours decreased by 65%.
- The use of hydraulic oil decreased from >12.000 litres/year to 2.800 litres/year.
- **Pay Back time was just 6 weeks.**

Automatic Guided Vehicle (AGV)

Situation :

Cost of maintenance was considered too high, with mechanics continuously on site carry out maintenance tasks.

What We Did:

A team consisting of six Level 1 DORA RCM practitioners and three Level 2 facilitators was raised. DORA was implemented. Master FMEAs were created for the 28 different AGV versions and then analysis was conducted on all vehicles and processes. A knowledge base was built and data was fed back, resulting in improved processes and maintenance.

Results:

- Within 6 months a clear picture was known of the biggest issues that had to be resolved.
- Within 12 months the maintenance budget dropped by > 45%.
- **Pay Back time was less than 30 days.**

Contact Us to receive your FREE trial version of our DORA Software - www.k2rcm.co.uk/dora

Reduce Your Operating Costs | Increase Your Asset Availability

Are you pro-actively working to reduce and eliminate down time, maintenance and faults?

Do you understand what your assets are costing throughout their product lifecycle?

How are your assets performing in terms of their reliability and availability?

Do you know how much you spend on maintenance and spares?

Do you understand how much down time costs you?

If you have said NO to any of these questions, then we can save you money!

K2 RCM - Asset and Process Optimisation Experts



Reliability Services & Solutions

- DORA & RCM Programmes
- Facilitated Workshops
- Maintenance Optimisation
- Asset Optimisation
- Root Cause Failure Analysis
- Failure Modes and Effects Analysis
- Spare Parts Optimisation
- Process Optimisation
- Analysis Audits
- DORA RCM Software



Consultancy Services & Solutions

- Organisation Reviews
- Process Reviews
- Change Planning
- System Safety Reviews
- Risk Analysis
- Training Needs Analysis
- Training Design
- Training Development
- Bid Support
- Continuing Airworthiness



Management Services & Solutions

- Programme Management
- Project Management
- Configuration Management
- Change Management
- System Safety Management
- Risk Management
- Training Management
- Process Management
- Spare Parts Management
- Quality Management & Audits

OUR CAPABILITIES

Let our experts pass on their skills, knowledge and experience through our range of courses, RCM software training and consultancy services.

RCM Training:

- 3 Day Introduction to Reliability-centred Maintenance (RCM)
- DORA Methodology and Software - understand the benefits of using RCM coupled to our advanced software
- 1 Day RCM overview for Execs and the general business
- Failure Modes, Effects & Criticality Analysis
- Advanced RCM Facilitator Course
- Raising an RCM Programme in your Organisation
- Root Cause Failure Analysis

Other Courses:

- Reliability, Availability, Maintainability, Safety (RAMS)
- Integrated Logistics Support & Support Engineering
- Training Needs Analysis & Systems Approach to Training
- Introduction to Safety Management Systems
- Introduction to Risk Assessments
- Human Factors
- Train the Trainer
- Maintenance Steering Group 3 course
- Conditioning Based Maintenance Awareness
- 3 Day Quality Auditing Techniques Course

We are Expert at Listening, Understanding and Resolving Your Problems.

Contact Us to Reduce Your Costs and Increase Your Asset Availability.