

Reliability & Maintenance

Reliability Centered
Maintenance (RCM)



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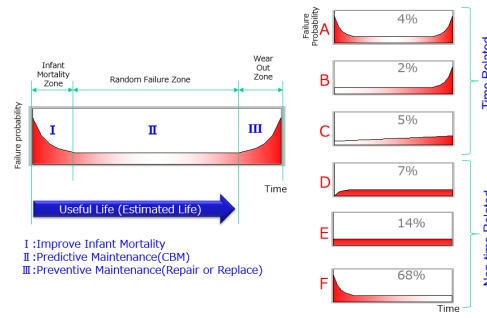
Access to Our Homepage

 <https://www.jgc.com/en/business/epc/operation-maintenance/service/>

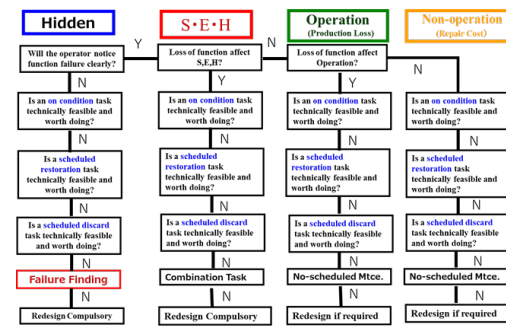
Reliability Centered Maintenance (RCM)

Do you have any of these issues?

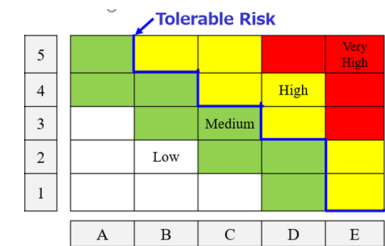
- ☹️ **Many unreliability events**
- ☹️ **Constant unrequired maintenance work**
- ☹️ **High maintenance cost**



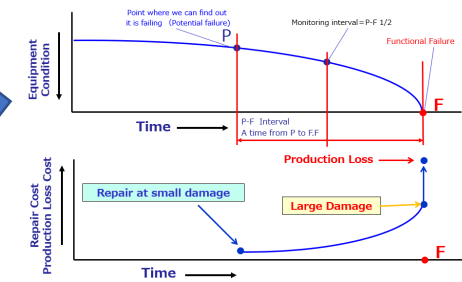
Analyse detailed failure pattern



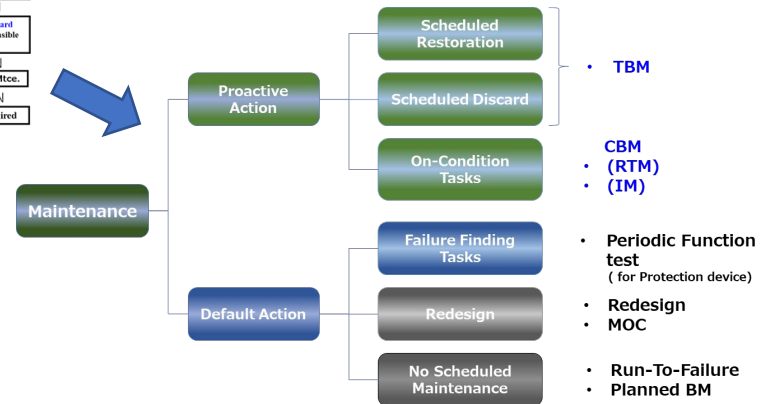
Decision Diagram
Consider Maintenance Tasks



Risk Matrix Assessment



Consider Condition Monitoring



Delivered appropriate Maintenance Tasks

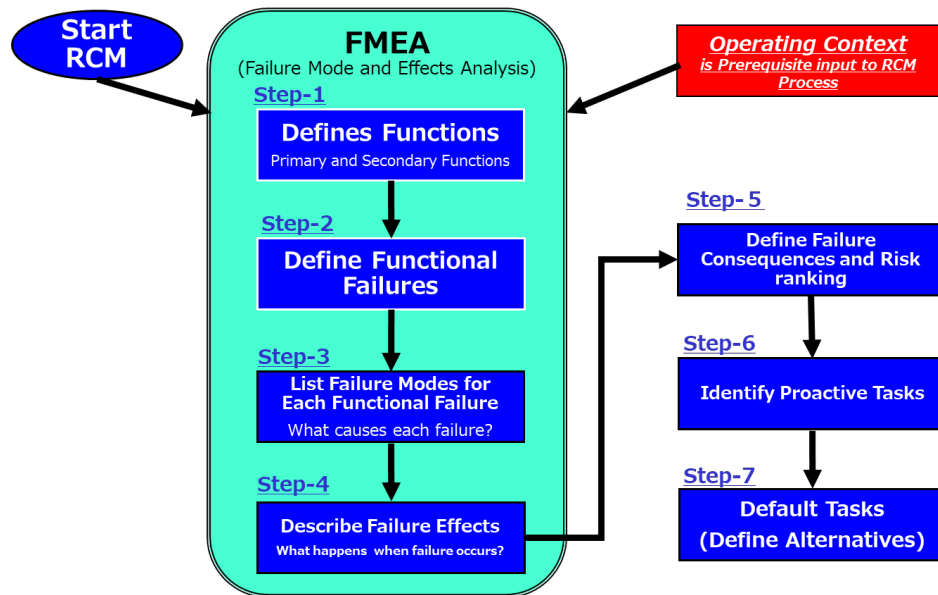
RCM Solution

- Determine the optimal failure management strategies for all equipment including risk base approach.
- Provide sustainable Predictive and Preventive Maintenance tasks
- Prevent Functional Failure for Required Function of equipment
- Mitigate Safety, Environment, Production and Asset damage risks

Reliability Centered Maintenance (RCM)

Return to
Reliability &
Maintenance menu

Workflow & Result



- Analyze Equipment Criticality to prioritize RCM study level
- Organize cross-functional RCM study team
- Define Operating Context including desired performance, legal requirement, integrated operating window, safety hazard, etc.
- Start RCM study depend on RCM work steps
- Identify Function, Functional Failure, Failure Mode, Failure Effect, Consequence and Risk ranking
- Identify Failure Management Tasks to prevent required Functional Failure

Our Strengths

- Professional Process & Material Engineer Teams
- Global experiences and performances on Risk assessment, Inspection planning, On-site Inspection.
- Integrating JGC many years of inspection and plant design experience to achieve lower inspection costs and longer plant life
- Collaboration between oversea EPC-capable group companies and local maintenance companies.

Our Experiences

15+
Project

RCM Study serviced
for over 10 projects

Worldwide
Achievement

RCM Experience in Far East,
Middle East, Southeast Asia,
Africa, North America