

Reliability-Centered Maintenance (RCM) Checklist

Asset Identification & Scope Definition

Defining the assets included in the RCM analysis and establishing clear boundaries.

Asset ID / Serial Number Enter a number		Write something		
Enter a number		Asset ID / Serial Numbe		
	f Description of Asset and its Purpose in Manufacturing	Enter a number		

	♥ Set	My Current Location	
Google			Map data ©2025
-	ing (High, Medium,	,	
High			
Medium			
_			
Medium			
] Medium] Low	jor Overhaul/Repla	cement	
Medium Low ate of Last Ma	jor Overhaul/Repla	cement	
] Medium] Low	jor Overhaul/Repla	cement	
Medium Low ate of Last Ma	jor Overhaul/Repla	cement	
Medium Low ate of Last Ma Enter date	jor Overhaul/Repla ed Systems / Interd		

Asset Status (Operationa	I Out of Sarvice Decempissioned)
	ii, Out-oi-Service, Decommissioned)
Operational	
Out-of-Service	
Decommissioned	
unctional Analy	/sis
nderstanding the intended fu anufacturing process.	unctions of the equipment and their importance to the
Describe the primary fund process.	ction(s) of the equipment in the manufacturing
Write something	
Describe the secondary of	or supporting functions of the equipment.
Write something	
Write something	
Write something	
	his equipment to production?
	his equipment to production? Failure
What is the criticality of t	Failure
What is the criticality of t Critical - Production Halt if	Failure ion Impact
What is the criticality of t Critical - Production Halt if Major - Significant Product	Failure ion Impact on Impact
What is the criticality of t Critical - Production Halt if Major - Significant Producti Moderate - Minor Productio Low - Minimal Production I	Failure ion Impact on Impact mpact
What is the criticality of t Critical - Production Halt if Major - Significant Producti Moderate - Minor Productio Low - Minimal Production I	Failure ion Impact on Impact

Write something				
Is the equipmen Yes No	nt part of a critical s	afety system?		
Describe any reequipment's full		เท ce requirem e	ents related to the	e
vviite demotrining				
	de Identifica			
entifying potentia	I ways the equipment	can fail and im	pact its function.	
	otential Failure Mod	e		
Describe the Po				

Failure Mode Category (e.g., Mechanical, Electrical, Hydraulic) Mechanical Electrical Hydraulic Pneumatic Software/Control Other
Estimated Frequency of Failure Mode (per year) Enter a number
Initial Severity of Failure Mode (Impact on Process) Catastrophic Critical Major Moderate Minor
Describe any visible indicators or warning signs of this failure mode Write something
Which components are directly involved in this failure mode?

Failure Effect Analysis

Determining the consequences of each failure mode on the overall manufacturing process.

Write something	
Describe the Impact on Product Quality	
Write something	
Describe the Impact on Safety (Personn	el and Environment)
Write something	
Describe the Impact on Other Equipmer	nt or Processes
Describe the Impact on Other Equipmer Write something	nt or Processes
	nt or Processes
	nt or Processes
Write something Estimated Downtime (hours) due to this	
Write something	
Write something Estimated Downtime (hours) due to this	
Write something Estimated Downtime (hours) due to this	failure mode
Write something Estimated Downtime (hours) due to this Enter a number	failure mode

Enter a number	
Severity Ranking (1-Critical, 5-Minor)
1 - Critical	
2 - Major	
3 - Moderate	
4 - Minor	
5 - Negligible	
ailure Caus	e Identification
ntifying the root cau	and and contributing factors for each failure made
	ry cause of the failure mode.
Describe the prima	
Describe the prima	
Describe the prima Write something	
Describe the prima Write something Select all contribute naterial defect).	ary cause of the failure mode.
Describe the prima Write something Select all contribute naterial defect).	ary cause of the failure mode.
Oescribe the prima Write something Select all contribute naterial defect). Environmental Contribute of the contrib	ting factors to the failure (e.g., environment, operator error, aditions (Temperature, Humidity, Vibration)
Describe the prima Write something Select all contribut naterial defect). Environmental Contributed the contributed in th	ting factors to the failure (e.g., environment, operator error, aditions (Temperature, Humidity, Vibration)
Write something Select all contribute naterial defect). Environmental Contribute Lubrication Issues Operator Error/Train	ting factors to the failure (e.g., environment, operator error, aditions (Temperature, Humidity, Vibration)
Describe the prima Write something Select all contribute naterial defect). Environmental Contribute naterial defect. Contribute naterial defect. Material Degradation of the prima naterial defect.	ting factors to the failure (e.g., environment, operator error, aditions (Temperature, Humidity, Vibration)
Write something Select all contribute naterial defect). Environmental Contribute Lubrication Issues Operator Error/Traited Material Degradation Design Flaw	ting factors to the failure (e.g., environment, operator error, additions (Temperature, Humidity, Vibration) ning
Write something Select all contribute naterial defect). Environmental Contribute Depraction Issues Operator Error/Trainer Material Degradation Design Flaw Installation Error	ting factors to the failure (e.g., environment, operator error, editions (Temperature, Humidity, Vibration) ning on

ical data or past incidents that support the identified root
use (Impact on overall system failure)
ing documentation (e.g., maintenance logs, inspection).
t level of control or mitigation for this root cause (if any).
ti

Maintenance Task Selection

Selecting appropriate maintenance tasks to prevent or mitigate failures, based on risk assessment.

Primary Maintenance Task Type?	
Time-Based Maintenance (Preventive)	
Condition-Based Maintenance (Predictive)	
Run-to-Failure (RTLF)	
Criticality-Based Maintenance	
Task Frequency (if Time-Based)	
Enter a number	
Task Description & Procedure	
Write something	
	<u>)</u> ,
Condition Monitoring Method (if Condition-Based)	
☐ Vibration Analysis	
☐ Infrared Thermography	
Oil Analysis	
Ultrasonic Testing	
Motor Current Signature Analysis (MCSA)	
None	
Condition Threshold Limit	
Enter a number	
Initial Task Implementation Date	
Enter date	

Skills Required for Task Completion Mechanical Electrical Hydraulic PLC Programming Instrumentation Other
Rationale for Task Selection Write something
Task Priority Level Critical High Medium Low
Maintenance Task Implementation & Scheduling Implementing and scheduling the selected maintenance tasks into the maintenance plan.
Maintenance Task Priority (Based on RCM Analysis) Critical High Medium Low

Scheduled Task Start Date
Enter date
Scheduled Task Start Time
Estimated Task Duration (Hours)
Enter a number
Detailed Task Instructions & Safety Precautions
Write something
Required Tools & Equipment
Hand Tools
Power Tools Specialized Equipment
☐ Specialized Equipment ☐ Lifting Devices
Testing Equipment
Maintenance Skill Level Required
Level 1 - Basic
Level 2 - Intermediate
Level 3 - Advanced
Level 4 - Expert

Attach Relevant Documentation (e.g., diagrams, procedures) 1 Upload File

RCM Documentation & Review

Documenting the RCM process, decisions, and findings, and establishing a review schedule.

RCM Plan Narrative Summary	
Write something	
),
Date of Initial RCM Analysis	
Enter date	
Date of Last RCM Review	
Enter date	
Review Frequency (e.g., every 12 months)	
Enter a number	
Review Type	
Full Review	
Partial Review	
Confirmation Review	

Write something		
Areas of Boylow Consi	orod (chock all that apply)	
Failure Modes	ered (check all that apply)	
Maintenance Tasks		
Task Frequency		
Criticality Assessment		
Spare Parts Inventory		
Supporting Documenta L Upload File	ion (e.g., updated FMEA)	
	ion (e.g., updated FMEA)	
♣ Upload File	ion (e.g., updated FMEA)	

Training and Communication

Ensuring maintenance personnel are properly trained on the RCM plan and the reasoning behind maintenance tasks.

Training Objectives Description
Write something
Topics Covered in RCM Training (Select All That Apply)
Asset Identification & Scope
Functional Analysis
Failure Mode Identification
Maintenance Task Selection
RCM Logic & Decision Making
Maintenance Procedure Documentation
Number of Personnel Trained (Initial) Enter a number
Date of Last RCM Training Session
Enter date
Summary of Key Training Messages & Communication Strategy
Write something

 ☐ Team Meetings ☐ Email Notifications ☐ Bulletin Boards ☐ Digital Communication Platform (e.g., Slack, Teams) Training Materials Upload (e.g., Presentations, Guides) ♣ Upload File
Bulletin Boards Digital Communication Platform (e.g., Slack, Teams) Training Materials Upload (e.g., Presentations, Guides)
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Continuous Improvement & Monitoring
lonitoring the effectiveness of the RCM plan and making adjustments as needed based n performance data.
Mean Time Between Failures (MTBF) Trend
Enter a number
Mean Time To Repair (MTTR) Trend
Enter a number
Failure Rate (Failures per Unit Time)
Enter a number

Deviation from Planned Maintenance Task Completion? On Time Delayed Not Completed
Observations and Notes on Equipment Performance
Write something
Date of Last RCM Review
Enter date
Areas for Potential Improvement Identified?
Task Effectiveness
Task Frequency
Parts Availability
Training Needs
☐ Documentation Accuracy
Summary of RCM Plan Effectiveness Discussion
Write something