Action Plan - Reliability Centered Maintenance



In this module we've learned how to:

- Describe Risk-based RCM
- Describe how the RCM methodology supports a broader asset management strategy according to ISO 55000
- Explain how RCM methodology uses failure and risk analysis to determine maintenance control strategies.
- Recall common RCM terminology and tools.
- Outline 7 sequential steps of an RCM process according to SAE JA1011.
- Describe seven different maintenance approaches.

Use the questions below to assess your current program and consider pursuit of RCM.

| Risk-based I | RCM |
|--------------|-----|
|--------------|-----|

| 1. Do I have a | an accurate, documented | d functional hierarchy? | | |
|--|---|--|--|--|
| 2. Have I obje | ectively identified my mo | st critical, valuable assets or systems? Don't know | | |
| 3. Which benefits of RCM are most relevant to my business objectives? Do I have a Reliability Engineer to execute and manage RCM duties? | | | | |
| | Safety Security Cost Reliability Work management Program efficiency | | | |
| RCM and ISO 55000 | | | | |
| 4. Does my organization consider asset management part of the business strategy? | | | | |
| | Yes No | Don't know | | |
| | | | | |

RCM methodology

5. Does my maintenance strategy for critical assets take into account that more than 80% of failures are random?

RCM Action Plan 1

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| 6. | Assign | a percentage to each mainte | enance category to reflect | the volume work performed today at your site: | |
|--|--|---|-----------------------------------|---|--|
| | _ | interval/time based | condition-based | failure findings | |
| | _ | servicing | corrective | emergency | |
| 7. | Is my c Yes | urrent maintenance plan bas | sed on and prioritized by the ris | sk of failures? | |
| 8. Consider a recent failure experienced at your site. Retroactively complete to the best of your ability th RCM analysis: | | | | | |
| | Step 1: Operational Context and Functions What is the system or equipment expected to do? What is the operational context of the equipment? Step 2: Functional Failure How did the asset fail to fulfill those functions? | | | | |
| | | | | | |
| | | Step 3: Failure Mode In what way did the asset fail? What happened functionally that resulted in the functional failure? Step 4: Failure Effects What happened as a result of the failure? | | | |
| | | | | | |
| | | Step 5: Failure Conseque What was the impact of the | | | |
| | | Step 6: Tasks and Tasks What could be done to pre | | | |
| | | Step 7: Other Measures Are there any other correct | tive actions or approaches to c | consider? | |
| | | - : : : : : : : : : : : : : : : : : : : | | | |

RCM Action Plan