

Take Control of Your Equipment with Seven Basic Skills

You DON'T have to apply RCM on every asset in your organization. You can apply RCM principles as broadly or as narrowly as necessary. Here is just **some** of the actionable knowledge that can be acquired from the RCM process.

The Reliability Centered Maintenance (RCM) Process

SKILL #1: DEFINE RELIABILITY

Properly writing Functions is the "bedrock" of any Reliability program. Here we *specifically quantify* the **Performance** we **require** from our equipment. In other words, we define the **Reliability** we need.

When we're clear about what we **need** from our equipment, we put ourselves in a position of strength to decide how to get it!

SKILL #2: PROPERLY IDENTIFY THE PROBLEMS

We manage assets at the Failure Mode level - *in other words* - those events that **specifically cause** Functional Failure.

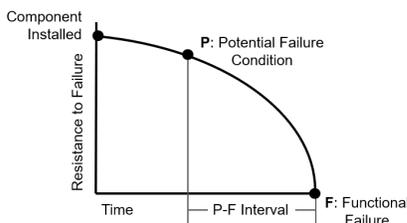
Another way to think about it is that we (proactively) identify the "problems" that create "unreliable" equipment..

Failure Modes must be written at the appropriate level AND in just the right amount of detail.

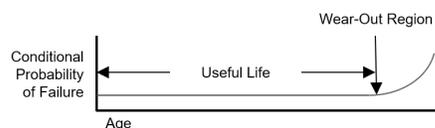
- *Too vague* and it's difficult to identify meaningful solutions
- *Too much detail* creates "analysis paralysis"

SKILL #5: FORMULATE PROACTIVE MAINTENANCE TASKS AND INTERVALS

Decide **if** and **how often** one or a combination of proactive tasks should be assigned. (NOTE: *Mean Time Between Failure (MTBF)* is NOT used to formulate maintenance task intervals.)



CBM task frequency is governed by the P-F Interval



Scheduled Restoration and Replacement task frequencies are governed by the Useful Life

Functions

Functional Failures

Failure Modes

Failure Effects

Failure Consequences

Proactive Maintenance and Intervals

- Scheduled Replacements
- Scheduled Restorations
- Condition Based Maintenance (CBM)

Default Strategies

SKILL #3: GENERATE FMEA

The first four steps of the RCM process generate a **Failure Modes and Effects Analysis (FMEA)**

SKILL #4: PRODUCE FMECA

Adding the fifth step produces a **Failure Modes, Effects, and Criticality Analysis (FMECA)**

SKILL #6: PERFORM CBM ANALYSIS

CBM analysis is included in the RCM Process

SKILL #7: IDENTIFY FAILURE FINDING TASKS AND OTHER SOLUTIONS

Formulate Failure Finding tasks and other solutions such as revised operating procedures and tech pub updates to manage Failure Modes when maintenance isn't the answer.

Discover how to hone these seven skills in our ONLINE RCM course at:

<https://RCMTrainingOnline.com/training>

