



RCM Turbo - Pilot Implementations Objectives, Deliverables and Requirements

Organisations are offered an opportunity to 'put their foot in the water' with respect to commencing a maintenance strategy review using *RCM Turbo*.

Normally conducted over five days on your site, a pilot will demonstrate the applicability of the *RCM Turbo* methodology to your operation. At the same time, important deliverables will be included. The following notes outline our Pilot approach:

Workshop Objectives:

- Impart an understanding of the principles of **RCM**
- Test the **promised improvements** in maintenance activities;
- Identify **cost benefits** from implementing the *RCM Turbo* methodology;
- Prove the **applicability** of the *RCM Turbo* methodology to the organisation;
- Evaluate the systems and procedures and their **acceptability** to users.

Workshop Deliverables:

- Newly developed **maintenance plans** for a selected piece of equipment;
- The **optimised frequency** of maintenance preventive actions calculated on a cost/risk basis;
- A **forward workload** report showing preventive and expected corrective activities plus labour requirements;
- A **zero based maintenance budget** for the selected equipment;
- An investigation of the available **options and flexibility** inherent in the *RCM Turbo* methodology;
- Direct involvement of site personnel in the use of the **system and procedures**.

Workshop Requirements:

Select a suitable area of plant or major piece of equipment to assess. It may be advisable to select critical and comprehensively maintained equipment. This will both test the system to the greatest extent and allow comparisons with existing procedures, frequencies and maintenance costs.

Layout and/or detail drawings or manuals for the chosen equipment will be very useful. Access to any existing history will also be useful, but mainly as a memory prompt, rather than as the primary source of data. Extensive history data is not critical to the exercise.



Provide time for key site personnel to spend with the trial facilitator. The people required will be those with most detailed knowledge of the chosen equipment. This is likely to include both maintenance and operations personnel and may include the time of the engineers and senior planners most likely to perform higher level maintenance evaluation.

Identify the cost to the business if the process is not available (opportunity cost or marginal rate). This may require internal investigation and discussion prior to the trial.

Equipment Requirements

Strategic will provide the software installed on a Notebook Computer. If it is to be installed on a client's computer then an Intel based PC running a Microsoft operating system and 30 Mbytes of free disc space will be required.

Some form of printer will be required during the workshop.

A data projector. Depending on the capability of the projector, it may be desirable to use a room where the lights may be dimmed. White Board and marker pens will also be very useful.

Trial Agenda

The normal procedure for a trial starts with a presentation of the overall methodology. The audience may include additional management and personnel who may not have any further direct involvement in the workshop. A presentation on the principles of RCM is then made. The length of this presentation will depend on the existing level of understanding of reliability principles.

The presentation is followed by a demonstration of the software, using existing data.

From this point on, discussions turn to details of the equipment chosen for the trial. The first part is to establish equipment breakdown and identification numbering. Where existing systems are in place, these will be followed as appropriate, though this is not essential. It is important to recognise that for the purposes of RCM analysis, *where* the equipment fits in the *process* is the most important factor. At this stage a review of the equipment at a high (process function) level will be performed. This stage of the analysis certainly should include operations personnel.

All further analysis may be performed utilising the equipment experts only, though the input of process personnel can be of benefit. The detailed analysis will continue for most of the remaining time.

The final task will be to group the detailed maintenance tasks, smooth the resource requirements and produce various sample reports. These reports will provide both summary and detail of the analysis performed, including maintenance budget information. All of these will be presented at an exit meeting. The exit meeting may also be used to discuss next steps.

An RCM *Turbo* trial or pilot is normally conducted over five days on site.