

RELIABILITY-CENTRED MAINTENANCE II

3-DAY RCM2 TRAINING

OBJECTIVES

- Learn what RCM2 is and how it works
- Learn what RCM2 achieves, how it achieves it and what resources are needed to apply it
- Provide sufficient understanding of the approach so that delegates can contribute usefully to an RCM2 analysis downstream (on equipment that they know well)
- Provide sufficient understanding of the approach so that delegates can manage an RCM2 application/implementation project.

AUDIENCE

- Maintainers, users, suppliers and designers of the equipment/system (at all levels, including technicians and operators)
- Anyone who will take an active part in an RCM2 analysis
- Anyone who will take part in implementing and/or managing the application of RCM2 and auditing the output.

PRE-REQUISITE (IF NEEDED)

- Not applicable

TOOLS AND METHODS

- Highly participative, comprising a combination of formal lecturing, exercises and case studies
- Visual-aids used include high-quality colour presentations and incorporate extensive aids to reinforce learning
- Comprehensive course notes are provided together with "solutions" to all exercises and case studies.

SESSIONS

- **Duration** : 3 days
- **Group** : 8-16 persons
- **Location** : Any suitable location world-wide

✓ English	✓ Dutch
✓ English American	✓ Portuguese
✓ Latin American	✓ Indonesian
✓ Spanish	✓ Russian
✓ French	✓ Chinese
✓ German	

EXPECTED OUTPUT

- At the end of the course, the delegates should have sufficient competence and confidence to take part in an RCM2 analysis (under the guidance of an RCM2 facilitator)
- The RCM2 derived maintenance tasks will maximise equipment availability and reliability at minimum life-cycle cost and without compromising safety or environmental integrity.

CONTENT

- **INTRODUCING RELIABILITY-CENTRED MAINTENANCE II**
 - ✓ Where RCM2 comes from, how the world of maintenance is changing and an introduction to the course content.
- **DEFINING THE PROBLEM AND GATHERING INFORMATION**
 - ✓ Defining functions and desired performance standards
 - ✓ Defining the ways in which an asset can fail to deliver the desired performance standard (functional failures)
 - ✓ Establishing the causes of failure (failure modes)
 - ✓ What happens when the failures occur (failure effects)
- **ASSESSING FAILURE CONSEQUENCES**
 - ✓ Protective and warning devices which are not fail safe
 - ✓ Failures which threaten safety or the environment
 - ✓ Failures which affect production or operations (output, product quality or customer service)
 - ✓ Failures which only entail the direct cost of repair
- **ASSESSING THE VALIDITY OF DIFFERENT TYPES OF PROACTIVE MAINTENANCE AND SETTING TASK FREQUENCIES**
 - ✓ On -condition maintenance
 - ✓ Scheduled restoration tasks
 - ✓ Scheduled discard tasks
- **DECIDING WHAT TO DO IF A SUITABLE PROACTIVE TASK CANNOT BE FOUND**
 - ✓ When and how often to do failure finding routines
 - ✓ When to redesign
 - ✓ When to run to failure
- **APPLYING THE RCM PROCESS**
 - ✓ Using supervisors, operators, craftsmen and specialists in RCM2 review groups
 - ✓ The role of the RCM2 facilitator
 - ✓ Implementation strategies and how to get started

☛ To know more about this training please contact Simon Deakin at the above address or e-mail sdeakin@mutualconsultants.ltd.uk

Reliability-centred Maintenance II [RCM2]:
 "A process used to determine the maintenance requirements of plant and equipment in its operating context"