

## One-day Reliability Centred Maintenance Introduction Workshop provided by TSMC Production & Maintenance Consultants

### What is Reliability Centred Maintenance

Reliability Centred Maintenance (RCM) is a proven, logical approach that helps companies to develop a maintenance and reliability plan or to improve the existing maintenance and reliability plans.

There are many myths and prejudices related to the RCM approach to maintenance planning.

Attend the TSMC workshop and get a feeling of what the RCM process really is.

The workshop will give you an introduction to the RCM process and the process steps. You will also be challenged by a series of cases and exercises based on examples from previous RCM analysis

### What can the one-day Reliability Centred Maintenance do for you

The one-day workshop will give you an understanding for the RCM approach, the terms used and the analysing process. You will also get an understanding of the expected results from the RCM process.

The one-day workshop should be mandatory for all managers who are managing or sponsoring a RCM analysis.

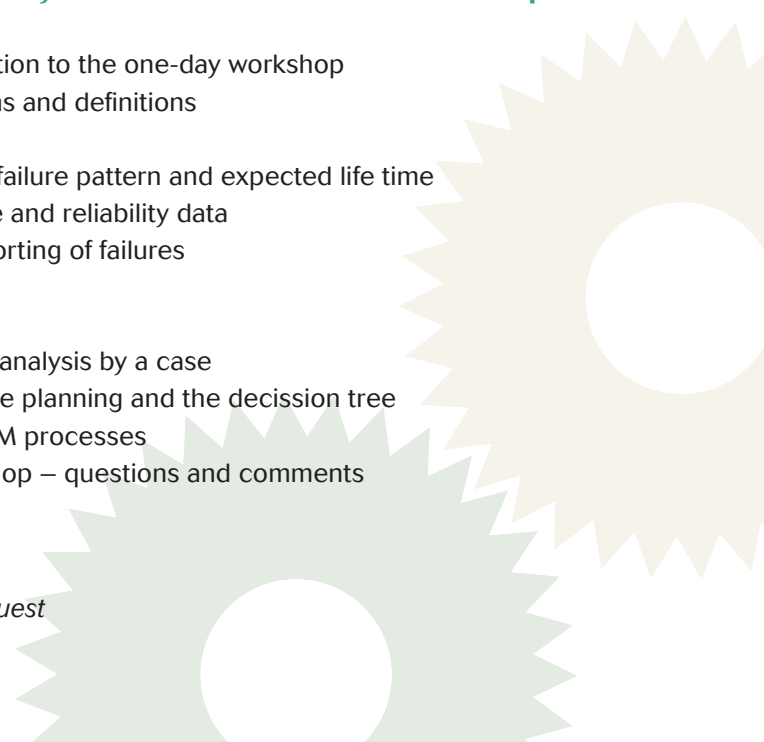
### Reliability Centred Maintenance workshop content

- Introduction to the RCM process
- Case with MTBF value and failure patterns
- Examples of RCM analysis
- Criticality of a failure
- Maintenance planning with the decision tree
- The process for a RCM analysis
- The road to success with RCM – and the pitfalls

### Proposed one-day Reliability Centred Maintenance workshop programme

- 9:00:** Welcome and introduction to the one-day workshop
- 9:15:** The RCM analysis, terms and definitions
- 10:00:** Morning coffee
- 10:15:** **Session 1:** Cases with failure pattern and expected life time
- 11:00:** Access to maintenance and reliability data
- 11:30:** **Session 2:** Criticality sorting of failures
- 12:00:** Lunch break
- 13:00:** The RCM game
- 13:30:** Walk through the RCM analysis by a case
- 14:00:** **Session 3:** Maintenance planning and the decision tree
- 15:00:** Organisation of the RCM processes
- 16:00:** Wrap up on the workshop – questions and comments
- 16:30:** Workshop evaluation
- 17:00:** Workshop closes

*To be adjusted as per client request*



## Results gained from the Reliability Centred Maintenance method

### The RCM method will give your business:

- Increased throughput achieved by an increase in availability performance
- Reduced maintenance cost while maintaining same level of availability
- A maintenance strategy for the equipment/plant/process
- Documentation for the decided level for safety performance, environmental performance, availability and costs (what are the rationale for we do as we do?)
- Increase in the staffs' knowledge of plant performance, production processes and failure patterns.



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The one-day Reliability Centred Maintenance introduction workshop is provided in the Danish, the Swedish and the English language.

### TSMC references projects

TSMC has provided RCM project managers and training of facilitators and team members to:

|                               |  |
|-------------------------------|--|
| <b>H. Lundbeck A/S</b>        | Pharmaceutical R&D and production                                  |
| <b>Preem AB</b>               | Refinery   |
| <b>Nordic Sugar</b>           | Food processing – 3 plants DK, SE                                  |
| <b>Vattenfall A/S</b>         | Power and Heat Generation  |
| <b>ARC</b>                    | Waste to Energy Power Plant  |
| <b>Life Science Company</b>   | Biotech production – DK  |
| <b>Life Science Company</b>   | Biotech production – UK  |
| <b>Pharmaceutical company</b> | Biotech production – Utilities and production equipment            |
| <b>Transport facility</b>     | Cooling Units, Passenger Bridge and HVACs                          |
| <b>Hillerød Forsyning</b>     | Power Generation and Heat distribution                             |
| <b>KK Wind Solutions A/S</b>  | Training and analysis for 2 systems in a new wind turbine          |
| <b>Novo Nordisk A/S</b>       | Training of the RCM team members and facilitators                  |
| <b>Hofor Bio4</b>             | RCM analysis for critical systems for a new bio fueled power plant |

### Contact:

TSMC Production & Maintenance Consultants  
for additional information of the RCM process  
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## COURSES, COMPETENCE AND DEVELOPMENT

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