



Aladon

The Risk & Reliability
GLOBAL NETWORK

RCM3™ INTRODUCTORY COURSE THREE-DAY PROGRAMME

DAY 1

MORNING:

History and Introduction of RCM and RCM3

- Growing maintenance expectations
- Changing understanding of how equipment behaves
- New maintenance techniques
- International Standards

A Way Forward using RCM3

Definition and role of maintenance

AFTERNOON:

Functions

Function statements

- Performance standards (Multiple performance standards, quantitative performance standards, qualitative standards, absolute performance standards, variable performance standards, upper and lower limits)
 - Different categories of functions
 - Exercise
 - Describing functions and performance standards
 - The operating context
- Case Study (Industry Specific)

MORNING:

Failed States / Functional Failures

- Failed states
- Performance standards and failure
- Who should set the standard?

Failure Modes

What is a failure mode?

- Failure modes (cause and mechanism) and the operating context
- What failure modes should be listed? (Human error)
- How much detail? (Causation)
- Describing failure modes
- Levels of analysis

Case Study

Failure Effects and Consequence Severity

Describing failure effects, what to record (local effect, next level higher effect, end effect and potential worst cause effects) and what assumptions to make.

AFTERNOON:

Inherent Risk

What is risk and who should decide what risk to tolerate?

Defining worth doing criteria for:

- Risk associated with hidden failures
- Failures posing an intolerable risk to safety and/or the environment (*physical risk*)
- Failures posing an intolerable risk to operational capability (*economic risk*)
- Failures with tolerable risk (*non-operational*)

Hidden failures exercise and Failure consequences exercise

DAY 2



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DAY 3

MORNING:

Proactive Risk Mitigation Strategies

Defining technical criteria (including frequencies) for:

- Predictive and condition-based tasks (review of predictive technologies)
 - Scheduled restoration tasks
 - Scheduled discard tasks
 - Combination of tasks
 - Failure-finding and functional checks (protective systems)
- One-time changes (modifications, training and procedures)

Case Study

Risk Management Strategies for Intolerable Risks

What **MUST** be done to reduce intolerable risks to tolerable level?

Risk Management Strategies for Tolerable Risks

What **CAN** be done to reduce tolerable risks in a cost-effective way?

AFTERNOON:

Implementing RCM Decisions

Applying RCM and What RCM Achieves



**CONTACT
US**

+1 (910) 399-3867
info@aladon.com
www.aladon.com

P.O. Box 656
Wrightsville Beach, NC
28480, USA