



The Aladon Network  
THINK AHEAD

## Root Cause Failure Analysis (RCFA)

# RCFA

Do you have assets or systems with repeat failures or failures which have serious consequences affecting safety, the environment or operational capability? These must be avoided (*or prevented from happening again*) to ensure the organizational goals are met. Whether you are in the public or private sector, your assets/systems must perform reliably so that you can deliver services or products to customers and citizens. RCFA ensures continuous improvement of your reliability program through reviewing failures that result in consequences which exceed the organization's tolerable risk threshold.

The RCFA process can be applied *pro-actively* or *reactively* (after the failure happened). We analyze asset history, identify the root causes of equipment failure, and develop maintenance practices to prevent these failures from occurring or recurring. The RCFA process is fully integrated with the RCM process and information (failure modes and effects) are transferable between worksheets. This limits duplication and wasting of resources. It focuses on preserving the functions your assets/systems perform rather than preserving the equipment itself. We determine the right failure management strategies to ensure your assets/systems function the way you want them to function-reliably and efficiently.

### Benefits

- Continuous improvement and sustainability of reliability program
- Reduced physical and economical risks
- Increased reliability and availability of your assets
- Alignment with international standards i.e. ISO 55000
- Less repeat failures and increased uptime
- Improved communication
- Knowledge retention and management

### RCFA Services & Training

- RCFA Executive Overview
- RCFA Introductory Course
- Aladon Facilitation
- RCFA Facilitator Certification

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### RCFA will:

- Improve knowledge and understanding of important failures that should be avoided, increasing asset reliability and reduce risk
- Improve the reliability program through providing the feedback loop for reviewing failure modes and effects - update the RCM database
- Decrease safety and environmental risk stemming from equipment breakdowns
- Review and validate the maintenance program - failure modes and effects
- Improve knowledge management and retention - more people learn more about the equipment and failures that matter
- Improve overall communication in your organization
- Increase asset performance and uptime

### RCFA will do it in the following way:

- Depending on the failure consequence and risk threshold, RCFA could be applied the following ways:
  - An informal "qualitative" process for less critical failures - medium risk
  - A formal "quantitative" process for critical failures - high risk

**RCFA is fully integrated with the Aladon RCM processes to provide continuous improvement and sustainability of your reliability program.**