

Aladon

The Risk & Reliability
GLOBAL NETWORK

CONDITION ASSESSMENT (CA)

COMPREHENSIVE
ASSESSMENT
FOR ALL YOUR
PHYSICAL ASSETS



www.aladon.com

CONDITION ASSESSMENT FOR YOUR PHYSICAL ASSETS

Aladon and the Aladon Network have been assisting customers improving reliability of their physical assets for more than 30 years. The Aladon Network used this experience and collective knowledge to develop the leading condition assessment methodology for physical assets. Our methodology is supported by world-class integrated software.

Aladon worked on all continents in every endeavor known to mankind and is now using that experience to offer industry-centric solutions. The Aladon Condition Assessment solutions are based on years of experience implementing reliability improvement programs in specific industries. The Aladon track record speaks volumes and includes references from leading industries around the globe. Aladon understands the challenges faced by all industries and offers a comprehensive experienced-based solution which includes templates and information to expedite performing Condition Assessments.

THE ALADON CONDITION ASSESSMENT PROGRAM OFFERS THE FOLLOWING:

- *Comprehensive Assessment* for all your physical assets
- *Qualitative and Quantitative Assessments* – field assessment and data driven
- *Equipment Assessment Templates* that cover most equipment by industry
- *Equipment Assessment Criteria* based on best practice evaluation for all types of physical assets
- *Risk/Cost* balanced approach for strategy development
- *Implementation and Sustaining Results*

A **COMPREHENSIVE APPROACH** ensures that not only the experience of the Operators and Maintenance are captured during the field assessment process (Qualitative Assessment), but also the data available in the Work Management System (WMS) is evaluated and included in the Quantitative Assessment. Templates are drafted for each assessment process, and all available information and data are used to complete the assessment. In cases where WMS information and data are less comprehensive or incomplete, weights can be assigned to the different processes to equalize the assessment scores.

Condition assessments provide important information for optimizing physical asset management programs. The time spent on risk and reliability analyses and the subsequent recommendations greatly improve with the right information at the start. For this purpose, Aladon recommends that a condition assessment is performed on the systems and assets that have been in service for a long time, in some cases still operating beyond its useful life (as specified by the manufacturers). Our Condition Assessment methodology consists of two distinct processes, the first being a **QUALITATIVE ASSESSMENT** (through observation) and the second being a **QUANTITATIVE ASSESSMENT** (data driven).



The **EQUIPMENT ASSESSMENT TEMPLATES** are templates that have been developed from 200 plus assessments in almost every industry known to mankind. Using the templates will save time and money when assessing your own assets. The templates are essential because every template provides the basic information required for performing the assessments. The templates are developed for specific processes and assets based on generic process design, equipment in use and regulatory standards. They include generic equipment and process information that are customizable for client specific needs.

Our experience has shown that regardless of where we implement risk and reliability improvement programs, customers use the same or similar equipment to do the same or similar jobs. We have collected information on these assets over many years and have used it to develop the templates. The templates do not replace our “zero-base” approach for doing assessments but they are valuable for ensuring consistency and that results are derived from the experience of your own people and from the experience of others in the same and like type industries. Our comprehensive template library includes the majority (if not all) of the critical equipment in use. The templates are grouped by different processes and are comprehensive including multiple types of assets. The **ASSESSMENT CRITERIA** is developed around failure modes (causes and mechanisms) and provides the ideal interface with reliability improvement programs such as RCM.

Once completed, the **ASSET CONDITION SCORES** are used for making important fact-based decisions on the remaining life of the assets. Whether used for long-term planning or repair vs. replace decisions, our methodology provides the correct information to make informed risk / cost decisions. Our approach allows companies to develop sustainable asset strategies based on the condition of their assets, and through our integrated approach, asset owners can update asset strategies continuously while ensuring the condition of the assets fulfills the reliability goals defined in their Asset Management Systems.

WHY DO CONDITION ASSESSMENTS?

Aladon and the Aladon Network have been assisting customers improving reliability of their assets. Performing a Condition Assessment can provide valuable information about your assets and whether it will be used for long term planning or asset strategy development decisions. The right information will improve the outcome and long term benefits. We recommend that a condition assessment be performed for the following reasons:

- Long term planning
- Asset replacement or asset strategy development
- Capacity increase (asset capability assessment)
- Obsolescence
- Facility management
- Due diligence and contract negotiations for taking over facility operations



BENEFITS:

- Improved Long-term Planning
 - Risk / Cost Balanced Budgeting and Planning
 - Improved Asset Strategy Development
 - Run
 - Rerate
 - Refurbish
 - Redesign
 - Rehabilitate
 - Replace
 - Retire
 - Repair
 - Obsolescence
 - Maintenance Program Optimization and Validation for Critical Assets
 - Asset Life Extension and Asset Sweating
-

CONDITION ASSESSMENT SOFTWARE

The Condition Assessment process comes with Comprehensive Software which contains a database with most types of equipment and typical failure modes (degradation mechanisms and failure causes) loaded. It is configurable based on the customer specific Operating Context and asset types. Teams pick (from existing database) or load the list of assets into the software, a sophisticated reporting and data collection program for storing and analyzing asset condition and risk assessment information on all types of assets.

