Asset Care Plan Development

Methodical Asset Care, Mitigated Risk, Optimised Performance

Benefits

Process Efficiency

Productivity, time saving

- Reduced administration for managing and updating ACPs. Asset care plans can be developed for similar asset types that could link to many assets. A change to an ACP can be implemented and immediately rolled out to linked assets. Modification control governs the acceptance or rejection of changes
- Effective use of time and resources. The ACPD approach take into account time is money and focus on spending time optimally based on the spread of the assets' criticality.
- A formal process is followed build on best practices to ensure consistency in the development process.
- Moving from a reactive- to proactive maintenance environment – towards more predictability.

Cost Savings

- Reduction in maintenance and downtime cost, due to an improved mix of more cost effective condition-based maintenance and usage-based maintenance.
- Improved effectiveness of tactical maintenance will lead to less breakdowns and consequently result in cost reductions.

Performance

- Improved reliability and uptime, due to effective tactical maintenance.

Risk mitigation

- ACPs are based on scientific evaluation of asset-related risks and failure profiles.
- ACPs are not based on gut-feel, opinion or intuition, but on collective experience and best practice.

Asset care plan development (ACPD) is the process of developing or improving tactical asset care plans (ACPs) on assets, by following a structured methodology.

Optimum Maintenance Mix Process

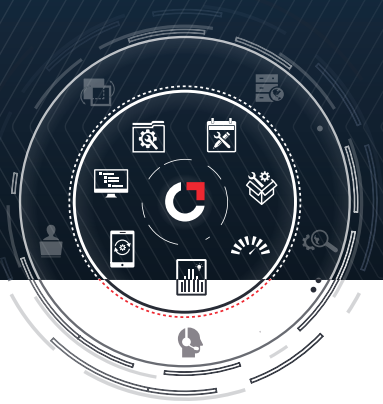
- Criticality analysis
- Functional analysis
- Failure analysis
- Tactic selection
- ACP detail development
- ACP implementation
- ACP execution

The approach combines the scientific methods of:

- asset criticality,
- Failure Modes and Effects Analysis (FMEA),
- balanced maintenance tactics selection, and
- maintenance task development.

The combination of asset criticality assessment with ACP development ensures a focus on the most critical assets.

Perform criticality analysis on all assets	Criticality analysis		
All assets rated as A, B, or C criticality	A criticality	B criticality	C criticality
Use an appropriate tool to develop or improve the ACPs	OMM Optimum Maintenance	QTD Quick tactics development	RCA Root cause analysis
developed for sim rolled out to linked a plan for all assets	Effective asset care plans		



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Use this step by step guide to unlock immediate value where it is most important.

Key Features

Process

- The development of a set of standards for assessing asset criticality, analysing failure modes and developing tactical tasks according to
- Alternative development options for assisting of different asset criticality
- A set of criteria assisting in the selection of a balanced set of maintenance tactics

Training

- Three day training course options to provide for different levels of role player competence
- A modular training approach covering all the skills required to develop ACPs. Each module has practical exercises and group discussions to instil knowledge and skill
- Interactive ACPD game to illustrate the practical decision making of the ACP development process
- Linking the ACPD in context to other asset management processes, such as work planning and scheduling and focused improvement.
- Engineering Council of South Africa (ECSA) accredited for Continual Professional Development (CPD)

Software

- Configuration of customised criticality models, such that different levels (groups) of assets can be assessed differently for criticality
- The partitioning of assets systems into multiple levels of assets and components
- The building of a Failure Modes and Effects Analysis (FMEA) tree
- Extensive task configuration capability with customisable fields to provide for most task details required by industry
- The software can be used as stand-alone tool and batch integrate with other ERP systems such as SAP
- A set of reports, which include an ACP development progress report, a long term work plan showing the required labour capacity for the developed ACPs and ACP for each asset.
- History is kept of changes made to criticality analysis, FMEA and ACPs.

Problems Addressed

Task Implementation

All tasks developed are balanced with...

The long term production plan	Available resources per trade	Availability of budget to perform the work

The long term plan must be practical and achievable

- Ineffective asset care plans or unreliable assets
- Breakdowns and non-tactical maintenance outweighs tactical maintenance work
- No formal process for improving ACPs
- Not knowing on which assets to focus your limited time available for ACP improvement
- Time and cost of traditional RCM interventions
- The time and administrative burden to manage ACP updates and configuration control.
- Difficulty to update or improve ACPs, once it is developed
- Difficulty to integrate newly developed ACPs into the CMMS for maintenance planning and scheduling