

Management Operations and Maintenance (MOM) Offering

– After Sales Service

A magnifying glass with a silver handle and black grip is positioned over a red circular area. The words "ASSET MANAGEMENT" are printed in gold, bold, serif capital letters on the red background. The magnifying glass is centered over the text, making it the focal point of the image. The background behind the magnifying glass is a textured, light brown surface.

**ASSET
MANAGEMENT**

ImproChem has the capability to deploy its current technologies including the technologies of partners through the total life of the asset deployed.

The aftersales offering is based on the implementation of the Management Operation and Maintenance (MOM) programme to all the assets deployed. This will be done by developing plant specific maintenance plans, supervision and joint operations of the plant deployed.

The Asset Management Approach

The MOM programme offered is described as the Total Water Engineered Management, Operations & Asset CARE® solutions focused on the long term, sustainable customer value based outcomes. Asset CARE® is an integrated asset management service offering from ImproChem focusing on the Capability, Availability, Reliability and Enhancement (CARE) programme that will be applied to all the plant and equipment deployed by ImproChem.

The MOM programme once applied delivers the following outcomes:

Process Audits & Assessments;

- Asset Management Plan (AMP) through the Asset CARE® programme;
- Blue & Green Drop Programmes;
- Asset refurbishment and replacement programme;
- Energy Conservation programme;
- Total Asset Longevity Programmes
- Better understanding of Asset CARE system through training and coaching

The MOM programme is applied to the following asset functional location focusing on the maintenance significant items of the asset being managed and monitored:

- Pump House & Valves Maintenance
- Filtration & Clarification
- E & I Maintenance
- Process Management & Operations

The Maintenance of Significant Items (MSI) identified will be used to develop maintenance programmes for these plants. The maintenance plans will be categorised in 5 levels of maintenance programme.

Cost saving will be realized through this programme by ensuring that all the application of the Level 1, up to level 4 maintenance packages are applied without fail.

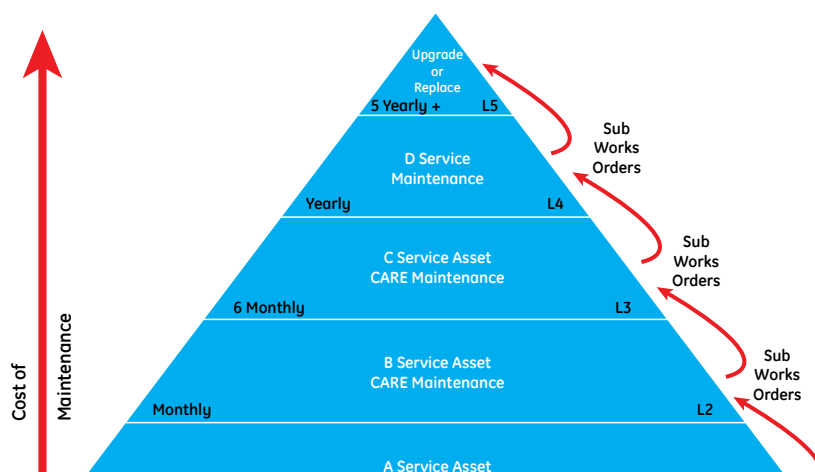


Figure 1: Asset Management Maintenance plan categories

1. What is Asset CARE – MOM

Asset CARE (Capability Availability Reliability Enhancement) - MOM (Manage Operate Maintain) programme is based on finding the Optimal Balance between the need of the Client and the need of the Engineered Solutions Plant and Equipment in order to achieve the business objectives of Safety, Quality, and Profitability.

2. How is an Asset CARE Program developed?

- Commissioning
- Maintenance Plan
- Building of Business Processes

3. Where can Asset CARE be applied?

- Food and Beverages
- Mining
- Refineries
- Public Works
- Chemical Processing
- Manufacturing

4. What are the benefits of Asset CARE?

- Cost Reduction
- Improved Asset Performance
- Risk Reduction

5. How can it improve my company profits?

- Implementing preventative maintenance plan through the utilisation of RCM (Reliability-centered maintenance)
- Improve RAMOS (Reliability Availability Maintainability Operability Safety) - engage customers during the design stage avoiding costly modifications
- Prolong Asset life by preventing catastrophic failures
- Implementing a CMMS (Computerized Maintenance Management System)

6. What is the Growth and Expansion Strategy in Africa?

ImproChem is expanding this programme beyond the borders of South Africa as part of the ImproChem growth strategy

Asset Care® Centers

- **South Africa**
 - Modderfontein
 - Sekhukhune
 - Western Cape
 - Mozambique Tete
- **Madagascar (Mobile Units Included)**
- **Ghana**
 - Bugusu (AEL Site to run Mobile Units)
- **Zambia**
 - Mofulira (AEL Site to run Mobile Units)



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