

Condition Based Maintenance



As a certified service supplier, we advise on maintenance requirements based on the actual condition of the equipment instead of calendar based schedules.

Condition Based Maintenance (CBM), also known as predictive maintenance, is an advancement in the maintenance philosophy. It is far more than just applying condition monitoring technologies. With CBM, repair decisions are based on the condition of the machine rather than on the calendar. This has a cost effective impact on various strategies and procedures, such as spare parts inventory, worker scheduling, planned work packages etc.

Within our CBM philosophy we will provide you with dynamic maintenance requirements. Combined with our continuous equipment improvements, this will help you improve your rig's efficiency.

Your maintenance operations can be planned flexible and executed offshore, utilizing available rig time. Therefore, the impact on drilling operation is minimized and based on MHWirth's OEM recommendation.

Continuous Class

Structural integrity and safety are the key prerequisites to shifting from calendar based to condition based survey. With our structural resumes, MHWirth offers essential services for this change.

Condition monitoring can be applied to Special Periodic Surveys (SPS) inspections as defined in API 7L/8B - CAT. IV. MHWirth provides you with a complete offshore Continuous Monitoring (offshore CM) program for your topside equipment. This eliminates the need for SPS every five years and allows you to implement continuous class.

CBM Tools and Services:

Depending on equipment type and criticality, various tools can be utilized to move into Condition Based Maintenance. MHWirth offers all essential tools and services for this change and supports you in continuous improvements and optimization of your topside equipment.

- Data collector
- Analyzer
- Machine prognostics
- Presentation

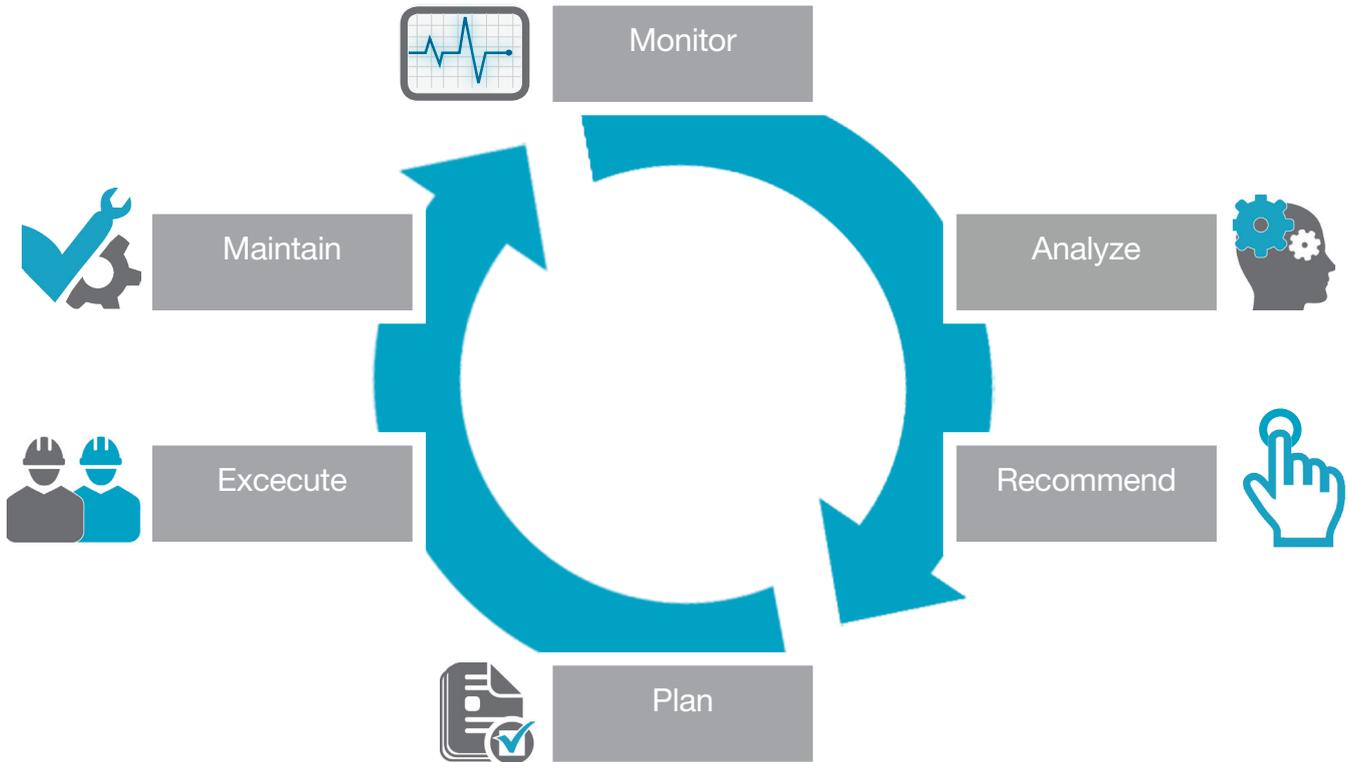
Benefits

- Eliminates the need for a yard stay every five years to verify the condition of your equipment
- Cost reduction secured by fixed service prices
- Improves predictability in operation
- Improves rig performance
- Reduces downtime
- Grants you OEM expertise and support



Condition Based Maintenance

Continuous Improvement Loop



| Tool | Description |
|---|---|
| Riglogger™ | Our Riglogger™ tool continuously records and stores data of the MHWirth topside equipment. This provides in-depth information on the condition and use of the equipment. |
| myDrilling™ | Our interactive, web-based myDrilling™ communication platform provides you with a total overview and relevant details for your day-to-day work – wherever and whenever you need it. |
| Smart machine prognostics – prognostics and health management (PHM) | Our PHM analysis tool collects and provides information on the equipment’s condition, thereby reducing lifecycle cost and increasing the availability of the equipment. |
| Smart machine prognostics – performance analyzer | Based on data collected through the Riglogger™ system, our performance analyzer visualizes system performance, and identifies improvement areas in operation. |
| Condition monitoring (CM) | With our comprehensive portfolio, MHWirth can execute any CM services. Our portfolio comprises the following tools and techniques: <ul style="list-style-type: none"> ■ Visual inspection ■ Vibration monitoring ■ Oil monitoring ■ Structural resume |
| Global operational support center | When you need support, you cannot afford to wait. Our technical support teams are available 24/7, minimizing the impact of unanticipated disruptions and keeping your rigs operational. |

Data is subject to confirmation by the manufacturer.