Effectively Manage Risk and Optimize Maintenance

Many operators struggle to identify and manage risk within their maintenance strategies. Oceaneering has a dedicated team of technical experts who provide an effective risk, reliability, maintenance (RRM) service.

We develop frameworks to help quantify and manage issues, assess reliability, and schedule work using a risk-based approach to maintenance management. We also ensure that your operations meet all regulatory and legislative compliance.
By using data and expert operational and engineering knowledge, specific areas of concern can be targeted and appropriate performance standards implemented to ensure the effort and investment produces the greatest effect. The approach involves a comprehensive review of all equipment on the topside of a platform, and it can also include the subsea infrastructure, wellheads, and production facilities.

Our track record spans over two decades and hundreds of global projects and operations, covering topsides, both onshore and offshore, as well as subsea and renewables projects. From an initial maintenance plan on a small asset, to a holistic review and update for a major installation or CAPEX newbuild, our expert engineers can deliver valuable and measurable return on investment (ROI) through the application of bespoke maintenance planning.

We tailor our approach to your individual operational and commercial drivers, ensuring the correct rigor, precision and control that will provide clear structure and visibility of your maintenance and operations. This, in turn, frees up valuable engineering resources by pinpointing areas where savings can be made and provides assurance that your people, reputation and investments are protected.

Our core competencies and specialties include:

- An asset register that illustrates how all equipment units are technically and physically related to each other in a hierarchical view. This technical hierarchy is normally used for:
  - Easy identification of the technical affiliation of the tag
  - Planning of corrective work orders
  - Preparation and packing of the preventive maintenance program
  - Time and cost collection
  - Data management

- Criticality/consequence assessments, which are crucial for estimating risk, that describe the purpose and importance of specific equipment for the function and safety of the plant; consequence classifications affect such things as prioritizations, reporting requirements, spare stocking levels, and maintenance requirements

- Established maintenance concepts and strategies
  - Failure mode, effects, and criticality analysis (FMECA)
  - Reliability, availability, maintainability, and safety (RAMS) analysis
  - Barrier analysis
  - Hazard identification (HAZID) analysis
  - Hazard and operability (HAZOP) analysis
Fast facts and customer savings:

We provide reliable information that can save you time and money without compromising safety. Some recent examples include:

- **Bespoke maintenance strategies**
  - Predictive maintenance
  - Preventive maintenance
  - Condition-based maintenance
  - Run to failure maintenance
  - Prescriptive maintenance

- **Computerized maintenance management system (CMMS) services**
  - Recommendations for structure and build
  - Program implementation
  - Project management planning
  - Work-order scheduling and leveling
  - Maintenance optimization
  - SAP training for operators

- **Spares management**
  - Evaluation
  - Estimation
  - Implementation
  - Stock level optimization

- **Workload analysis**
  - Man-hour estimation and planning for all maintenance disciplines (mechanical, electrical, and inspection)
  - Evaluation and comparison of different maintenance strategies
  - Specification of maintenance personnel requirements

- **Fast facts and customer savings:**

  - Saved an operator $10 million USD pa by reducing maintenance spend by 50%

  - Reduced maintenance load by 20% with a detailed review and new processes for 8 new build assets

  - Developed new preventive maintenance program to save drilling contractor 1,600+ annualized hours

  - Reviewed 6 operational assets and enabled a 10% reduction of maintenance load resulting in an annual savings of $400,000 USD

  - Saved client $200,000 USD pa with a review of 5,000 cruise ship spare parts, resulting in a stock reduction of 35%