

## CASE STUDY

# CRITICAL EQUIPMENT TACTIC REVIEWS

Major Mining Producer

### Objective

Xenco was engaged to enhance asset reliability and minimise downtime by developing and optimising equipment maintenance tactics. Our goal was to ensure a consistent, high-quality approach to asset strategy by addressing gaps in existing Failure Modes, Effects, and Criticality Analysis (FMECA) reviews and improving the application of maintenance tactics. This involved refining reliability processes, aligning them with corporate standards, and preparing them for seamless implementation.

### The Challenges

During the review of existing asset strategies, several quality issues were identified in the Failure Modes, Effects, and Criticality Analysis (FMECA) reviews and asset tactics. Key challenges included:

- The variability in how maintainable components were classified across assets led to gaps in reliability planning.
- Functional definitions and failure modes were inconsistently applied, reducing the effectiveness of asset strategies.
- Maintenance tactics lacked uniform application, leading to inefficiencies in scheduling and execution.

## AT A GLANCE

### Challenges

- Inconsistencies in item identification.
- Inaccurate function and failure mode identification.
- Gaps in equipment tactic completeness and consistency.

### Benefits

- Implemented comprehensive maintenance tactics.
- Improved scheduling efficiency.
- Minimised downtimes.
- Streamlined maintenance execution.

### Contact us

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Xenco is a multi-disciplined, specialist service group that delivers executive and operational level support to businesses seeking significant improvements in productivity, efficiencies and company profitability.

## Our Approach

To address these challenges, Xenco's Reliability and Equipment Specialists undertook a comprehensive tactics review program. Our approach included:



### **Comprehensive Review**

Our team conducted in-depth assessments of high-priority heavy mobile equipment (HME) and fixed plant assets across multiple sites to identify gaps and inconsistencies.



### **Developed Tactics**

Our team developed a centralised library of optimised maintenance tactics to standardise reliability practices.



### **Tactic Alignment**

We ensured all maintenance strategies incorporated condition monitoring and met corporate reliability standards.



### **Refine Strategies**

Deployed a team of specialists with hands-on equipment reliability experience and system expertise to refine asset strategies effectively.

## Our Results

Our team's review of the Critical Equipment Tactic led to significant improvements in asset maintenance strategies. Key outcomes included:

### **Comprehensive maintenance tactics**

- ✓ We developed detailed, structured tactics for critical assets, ensuring they were aligned with the client's specific requirements.

### **Optimised work packaging**

- ✓ We conducted thorough work packaging reviews to categorise reliability tasks into logical groupings, enhancing scheduling efficiency.

### **Minimised downtime impact**

- ✓ We streamlined maintenance execution to reduce downtime requirements, improving overall asset availability and operational continuity.

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