

Condition Monitoring Engineered Consulting Solutions

An Investment in Reliability Excellence

The scope

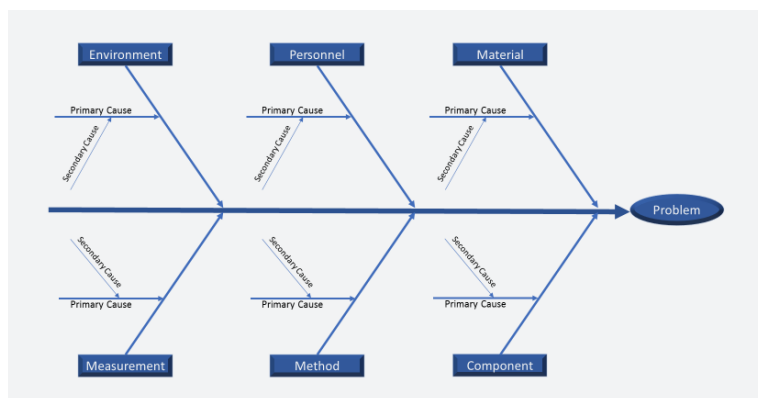
Pragma Condition Monitoring provides a consulting service for clients to achieve excellence in asset reliability through engineered solutions.

Condition monitoring can offer many benefits to any asset intensive organisation. The benefits are realised through the application of fundamental engineering principles and experience.

A condition monitoring system should be designed to suit the circumstances, business needs and environment of the organisation. The scope of this work includes:

- Condition Monitoring Improvement Plans
- Condition assessments and testing
- Failure investigations
- Performance optimisation
- Root cause analysis (RCA)
- Failure Mode Effects Analysis (FMEA)
- Criticality analysis
- Technical risk analysis
- Providing technical advice
- Development of test and inspection plans
- Development/review of operating philosophies and maintenance strategies
- Modifications – electrical design
- Modernisation/standardisation projects
- Providing Quality Assurance during:
 - Design
 - Factory acceptance
 - Installation
 - Commissioning
 - Handover.

Analysis by systematic approach



The benefits

- Enhanced plant reliability and availability
- Prevention of unplanned outages
- Asset life extension
- Improved asset efficiency and performance
- Optimised planning and execution of maintenance activities
- Optimised outage scope definition
- Increased productivity
- Improved mean time between failures
- Compliance with best industry practices
- Identification and management of asset failure safety risks
- Management of asset failure environmental risks
- Maintenance of assets with reduced resources and cost
- Enablement of justified decision making
- Providing input to an effective asset management strategy.

Concerns addressed

- How do we ensure a more reliable asset base?
- We lack knowledge about available technology.
- We need to upskill our staff to maintain a condition monitoring programme.
- Are our assets compliant and performing as such in similar industries?
- Are our inspections, tests and quality up to standard to ensure safety?
- We are unsure where to focus improvement efforts.
- Why are we experiencing recurring failures?
- How can we shift to a more proactive maintenance tactic?
- Where do we start in ranking our asset performance?
- Our current strategy falls short of projected outcomes.

Applications

- Switchgear
- Motor Control Centres
- Cables
- Converters and inverters
- Transformers
- Bushings
- Generators
- Motors
- Compressors
- Pumps
- Fans
- Gearboxes
- Mills
- Conveyers

Identify interventions to realise the maximum life of your assets

