



Mine Equipment Maintenance & Reliability Checklist 2026

Preventive Maintenance Scheduling & Planning

Verification of maintenance intervals, service logs, and upcoming scheduled downtime for all critical mining machinery.

Next Scheduled Service Date

Maintenance Priority Level

- ☐ Critical (Immediate Action)
- ☐ High (Within 48 Hours)
- ☐ Routine (Scheduled)
- ☐ Low (Monitor Only)

Current Equipment Meter Reading (Hours/KM)

Scheduled Tasks Completed

- ☐ Oil & Filter Change
- ☐ Hydraulic System Inspection
- ☐ Electrical System Audit
- ☐ Structural Integrity Check

Maintenance Plan Deviations or Delays

Write something...

Updated Maintenance Schedule Document

 Upload File

Maintenance Planner Approval

Mobile Equipment Inspection (Haul Trucks & Loaders)

Detailed checks for hydraulic systems, tire/track integrity, braking systems, and engine performance of heavy mobile units.

Inspection Date

Enter date...

Equipment ID/Unit Number

☐ HT-001

☐ HT-002

☐ LD-001

☐ LD-002

Primary Inspection Areas

☐ Hydraulic Systems

☐ Braking & Steering

☐ Tires & Undercarriage

☐ Engine & Transmission

☐ Lighting & Electrical

Current Hour Meter Reading

Enter a number...

Tire/Track Condition Notes

Write something...

Deficiencies & Required Repairs

Write something...

Photo Evidence of Wear/Damage

 Upload File

Inspector Authorization

Fixed Plant & Crushing Circuit Integrity

Routine assessment of conveyors, crushers, screens, and conveyor belt tensioning or structural stability.

Crusher Primary Component Status

- ☐ Operational
- ☐ Maintenance Required
- ☐ Critical Failure

Conveyor Belt Tension Measurement (mm)

Enter a number...

Last Inspection Date

Enter date...

Structural Wear Observations

Write something...

Crushing Circuit Vibration Analysis Report



Upload File

Plant Engineer Verification

Lubrication & Fluid Management

Monitoring of oil levels, grease points, coolant health, and recent fluid analysis reports for all major components.

Last Fluid Analysis Date

Enter date...

Oil Level Status

- ☐ Normal
- ☐ Low
- ☐ Critical
- ☐ Requires Immediate Top-up

Engine Oil Pressure (PSI)

Enter a number...

Lubrication Points Inspected

- ☐ Hydraulic Cylinders
- ☐ Chassis Grease Points
- ☐ Drive Shafts
- ☐ Universal Joints
- ☐ Bearing Housings

Observations of Contamination or Leaks

Write something...

Upload Fluid Analysis Report

 Upload File

Technician Verification

Critical Spare Parts & Inventory Control

Audit of essential spares availability, lead time monitoring for high-wear components, and warehouse storage conditions.

Critical Component Category

- ☐ Hydraulic Components
- ☐ Electrical & Electronic
- ☐ Structural & Wear Parts
- ☐ Engine & Drivetrain
- ☐ Consumables (Filters/Lubricants)

Part Name/ID

Current Stock Quantity

Minimum Required Threshold

Last Restock Date

Procurement Notes or Reorder Status

Delivery Note or Invoice Copy



Upload File

Inventory Controller Verification

Diagnostic & Sensor Calibration

Verification of onboard telematics, pressure sensors, temperature gauges, and automated monitoring systems accuracy.

Calibration Completion Date

Sensor Status

- ☐ Operational
- ☐ Requires Recalibration
- ☐ Faulty/Non-Functional
- ☐ Under Repair

Sensor Variance Percentage

Enter a number...

Calibration Findings & Anomalies

Write something...

Upload Calibration Certificate/Report

 Upload File

Technician Verification

Operator & Mechanic Competency Records

Review of training logs, specialized equipment certifications, and-adherence to standard operating procedures (SOPs).

Last Competency Assessment Date

Enter date...

Operator Certification Status

- ☐ Certified/Current
- ☐ Expiring Soon
- ☐ Expired/Lapsed
- ☐ In Training

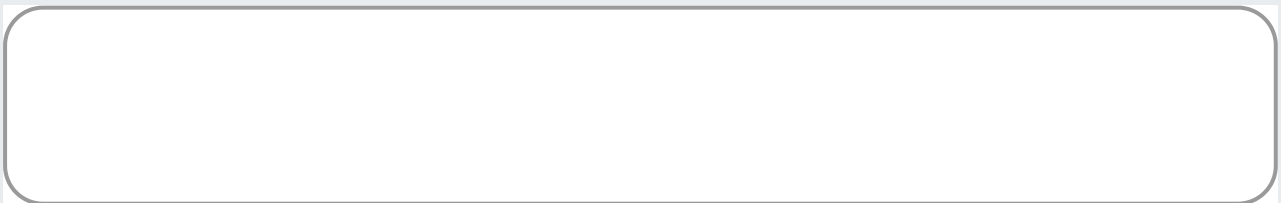
Authorized Equipment Categories

- ☐ Heavy Haulage
- ☐ Excavation & Drilling
- ☐ Ancillary Vehicles
- ☐ Processing Plant Operations

Training Certificate Upload

 Upload File

Supervisor Verification Signature



Competency Gaps & Training Requirements

Write something...

Post-Maintenance Quality Assurance

Verification of repair completion, leak testing, and functional testing protocols before returning equipment to production.

Post-Repair Functional Test Status

- ☐ Passed
- ☐ Failed - Requires Follow-up
- ☐ Passed with Minor Observations

Observed Anomalies or Remaining Issues

Write something...

Verification Completion Date

Enter date...

Post-Maintenance Inspection Photos

 Upload File

Lead Mechanic/Inspector Signature

Safety Systems & Emergency Shutdown Verification

Testing of fire suppression systems, emergency stops, -and backup alarms to ensure compliance with 2026 safety standards.

Emergency Shutdown Systems Tested

- ☐ Emergency Stop Buttons (E-Stops)
- ☐ Automatic Fire Suppression System
- ☐ Hydraulic Isolation Valves
- ☐ Machine Limit Switches
- ☐ Battery Disconnect Switches

Fire Suppression System Pressure Status

- ☐ Within Operational Range
- ☐ Low Pressure - Requires Immediate Service
- ☐ Critical Failure - Out of Service

Last Fire Extinguisher Inspection Date

Enter date...

Identified Safety System Defects

Write something...

Corrective Action Plan for Safety Non-Compliance

Write something...

Safety Inspector Verification

Maintenance Documentation & Compliance

Review of digital maintenance management system (CMMS) updates, work order closures, and regulatory compliance logs.

Audit Completion Date

Enter date...

Compliance Status

- ☐ Fully Compliant
- ☐ Minor Non-Conformance
- ☐ Major Non-Conformance
- ☐ Critical Failure

Required Documents Verified

- ☐ Maintenance Logs
- ☐ Operator Training Records
- ☐ Manufacturer Service Manuals
- ☐ Safety Incident Reports
- ☐ Parts Procurement Invoices

Summary of Discrepancies

Write something...

Upload Scanned Maintenance Certificates

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Compliance Officer Signature

< Previous

> Next

✓ Finish

 Generate Sample Report