

PREDICTIVE MAINTENANCE INSPECTION CHECKLIST

GENERAL INFORMATION

Name: _____

Date: _____

Location: _____

Equipment Condition Monitoring

Yes No — Vibration levels are monitored and within acceptable limits

Yes No — Thermal imaging shows no abnormal heat signatures

Yes No — Lubrication levels are adequate and contamination-free

Yes No — Wear patterns are reviewed for early failure indicators

Performance & Efficiency Tracking

Yes No — Equipment output is consistent with baseline performance

Yes No — Cycle times are stable and meet production requirements

Yes No — Energy consumption is within expected range

Yes No — Predictive analytics tools show no degradation trends

Sensor & Data System Checks

Yes No — IoT sensors are calibrated and transmitting accurate data

Yes No — Data logging systems are operational with no gaps

Yes No — Alerts and notifications function correctly

Yes No — Predictive models are updated with latest equipment data

Maintenance Planning

- Yes No — Condition-based maintenance tasks are scheduled properly
- Yes No — Replacement parts inventory is monitored and restocked
- Yes No — Maintenance intervals align with real equipment usage
- Yes No — Repair recommendations are reviewed and approved

Safety & Operational Risk

- Yes No — No signs of overheating, friction damage, or mechanical stress
- Yes No — All guards, shields, and safety devices are functional
- Yes No — Operators are trained to recognize early failure indicators
- Yes No — Emergency stop systems respond correctly

FINAL NOTES

Inspector Comments:

Inspector Name: _____

Inspector Email: _____

Inspection Date: _____

I confirm this inspection was completed accurately

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