ChecklistGuro

Compressed Air System Inspection Checklist

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System Overview & Documentation

Initial assessment and verification of system documentation.

Date of Inspection

Enter date...

Time of Inspection

Enter time...

System Description (Brief)

Write something...

System Location(s)

Write something...

System Pressure (PSI)

Enter a number...

System Type

- [ ] Rotary Screw
- [ ] Reciprocating
- [ ] Centrifugal
- [ ] Other

P&ID or System Diagram (if available)

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Previous Inspection Notes/Recommendations

Write something...

System Operational Status

- [ ] Operational
- [ ] Degraded
- [ ] Shutdown

Air Compressors

Inspection of the compressor units themselves, including electrical, mechanical, and performance checks.

Compressor Operating Pressure (PSI)

Enter a number...

Compressor Motor Amperage (Amps)

Enter a number...

Belt Tension (if applicable - scale of 1-10)

Enter a number...

Compressor Noise Level (Subjective)

- [ ] Normal
- [ ] Slightly Elevated
- [ ] Excessive

Description of any unusual noises or vibrations

Write something...

Oil Level (if applicable)

- [ ] Full
- [ ] Adequate
- [ ] Low

Notes on oil condition (color, clarity)

Write something...

Last Oil Change Date

Enter date...

Photo of Compressor (for reference)

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Air Receivers (Tanks)

Assessment of the air receiver tank for corrosion, pressure, and safety devices.

Tank Capacity (Gallons/Liters)

Enter a number...

Working Pressure (PSI/Bar)

Enter a number...

Tank Material (Steel, Stainless Steel, Other)

- [ ] Steel
- [ ] Stainless Steel
- [ ] Other

Tank Condition (Excellent, Good, Fair, Poor)

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor

Description of any Tank Corrosion or Damage

Write something...

Pressure Relief Valve Set Pressure (PSI/Bar)

Enter a number...

Last Tank Internal Inspection Date

Enter date...

Pressure Relief Valve Test Result (Pass/Fail)

- [ ] Pass
- [ ] Fail

Photos of Tank Condition

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Air Treatment (Filters, Dryers, Regulators)

Inspection and testing of air treatment components to ensure air quality.

Inlet Air Pressure (PSI)

Enter a number...

Outlet Air Pressure (PSI)

Enter a number...

Pressure Drop Across Filter (PSI)

Enter a number...

Dryer Humidity (ppm)

Enter a number...

Filter Condition

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor
- [ ] Needs Replacement

Dryer Type

- [ ] Refrigerated
- [ ] Desiccant
- [ ] Membrane

Notes on Dryer Performance (e.g., unusual noises, vibrations)

Write something...

Regulator Output Pressure Setting (PSI)

Last Filter Replacement Date

Enter date...

Air Distribution Piping

Examination of the piping network for leaks, corrosion, and proper support.

Piping Pressure (PSI)

Enter a number...

Piping Material Condition (Check all that apply)

- [ ] Good
- [ ] Minor Corrosion
- [ ] Significant Corrosion
- [ ] Damage/Dents
- [ ] No Visible Issues

Number of Leaks Identified

Enter a number...

Leak Location Details (if applicable)

Write something...

Pipe Support Condition

- [ ] Secure
- [ ] Loose
- [ ] Damaged
- [ ] Missing

Pipe Diameter (inches)

Enter a number...

Piping Insulation Condition

- [ ] Intact
- [ ] Damaged
- [ ] Missing
- [ ] None

Any Unusual Noise Observed in Piping?

Write something...

Pressure Regulation & Control

Verification of pressure regulation and control system functionality.

System Supply Pressure (PSI)

Enter a number...

Pressure at Farthest Point (PSI)

Enter a number...

Pressure Drop Across Regulator (PSI)

Enter a number...

Regulator Type

- [ ] Direct Acting
- [ ] Pilot Operated
- [ ] Proportional

Regulator Functioning

- [ ] Operating Normally
- [ ] Hysteresis Present
- [ ] Unstable Output
- [ ] Malfunctioning

Notes on Regulator Performance

Write something...

Last Regulator Maintenance Date

Enter date...

Time of Pressure Readings Taken

Enter time...

Safety Devices & Interlocks

Assessment of safety devices such as pressure relief valves, alarms, and interlocks.

Pressure Relief Valve Set Point (PSI)

Enter a number...

Pressure Relief Valve Test Status

- [ ] Passed
- [ ] Failed
- [ ] Not Tested

Low Air Pressure Alarm Functionality

- [ ] Functional
- [ ] Not Functional
- [ ] Not Applicable

High Air Pressure Alarm Functionality

- [ ] Functional
- [ ] Not Functional
- [ ] Not Applicable

Pressure Relief Valve Discharge Pressure (PSI - if tested)

Enter a number...

Last Pressure Relief Valve Test Date

Enter date...

Comments/Observations regarding Safety Devices & Interlocks

Write something...

Drainage System

Inspection of condensate drain lines and traps.

Describe the type of drainage system in place (e.g., automatic, manual, Timed)

Write something...

Measure drainage line pressure (PSI)

Enter a number...

Are drain traps functional and free from blockages?

- [ ] Yes
- [ ] No
- [ ] N/A

Identify any observed issues with the drainage system (Select all that apply)

- [ ] Leaks
- [ ] Clogging
- [ ] Excessive Condensate
- [ ] Incorrect Trap Operation
- [ ] None

Describe any corrective actions taken regarding drainage system issues.

Write something...

Date of last drain trap cleaning

Enter date...

Electrical Components

Assessment of electrical connections, wiring, and motor condition.

Compressor Motor Voltage (V)

Enter a number...

Compressor Motor Current (A)

Enter a number...

Motor Temperature (°C)

Enter a number...

Motor Condition

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor

Wiring Condition

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor

Notes on Electrical Components

Write something...

Last Electrical Maintenance Date

Enter date...

Maintenance Records Review

Review of past maintenance records to identify trends and potential issues.

Last Compressor Oil Change Date

Enter date...

Oil Change Interval (Days)

Enter a number...

Hours Since Last Filter Replacement

Enter a number...

Last System Pressure Test Date

Enter date...

Summary of Recent Maintenance Activities (Last 12 Months)

Write something...

Are Maintenance Records Complete?

- [ ] Yes
- [ ] No
- [ ] Partially

Upload a copy of the Maintenance Schedule

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Total Downtime Hours (Past Year)

Enter a number...