ChecklistGuro

Welding Fume Extraction System Checklist

System Overview & Location

Initial assessment of system location, identification, and general condition.

System Location (Primary Welding Area)

Set My Current Location

System Identification Number/Tag

Write something...

Manufacturer

Write something...

Model Number

Write something...

Date of Last Major Service

Enter a number...

Date of System Installation

Enter date...

Current System Operational Status (0=Offline, 1=Online)

Enter a number...

Brief Description of System Configuration & Purpose

Write something...

Local Exhaust Ventilation (LEV) Hoods & Capture

Inspection of hoods and capture efficiency near welding operations.

Hood Location(s) Inspected

Set My Current Location

Hood Condition - General

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor
- [ ] N/A

Estimated Distance from Hood to Welding Process (inches)

Enter a number...

Hood Material Condition

- [ ] No Damage
- [ ] Minor Damage
- [ ] Significant Damage
- [ ] Corrosion Present

Hood Obstructions?

- [ ] None
- [ ] Welding Curtains
- [ ] Equipment
- [ ] Debris
- [ ] Other (specify in LONG_TEXT)

If 'Other' selected above, please specify

Write something...

Airflow Appearance - Adequate Capture?

- [ ] Yes
- [ ] No
- [ ] Uncertain

Describe any observed capture deficiencies (if 'No' or 'Uncertain' selected above)

Write something...

Ductwork & Connections

Evaluation of ductwork integrity, leaks, and proper connections.

Ductwork Segment Identification - Start Point

Set My Current Location

Ductwork Segment Identification - End Point

Set My Current Location

Visual Inspection - Ductwork Condition

- [ ] Excellent - No visible damage
- [ ] Good - Minor surface corrosion
- [ ] Fair - Moderate corrosion/damage
- [ ] Poor - Significant damage/leakage

Ductwork Temperature (Celsius)

Enter a number...

Connection Type (e.g., Flanged, Clamped)

- [ ] Flanged
- [ ] Clamped
- [ ] Welded
- [ ] Other

Connection Leakage Assessment

- [ ] No Leakage
- [ ] Minor Leakage
- [ ] Moderate Leakage
- [ ] Significant Leakage

Detailed Observations / Notes regarding Ductwork and Connections

Write something...

Photographic Evidence of Ductwork/Connections (if necessary)

Upload File

Filter System

Assessment of filter condition, efficiency, and maintenance records.

Initial Filter Pressure Drop (in H2O)

Enter a number...

Current Filter Pressure Drop (in H2O)

Enter a number...

Filter Media Type

- [ ] HEPA
- [ ] Pleated
- [ ] Cartridge
- [ ] Other (Specify)

Comments on Filter Condition (Appearance, Damage, etc.)

Write something...

Last Filter Replacement Date

Enter date...

Estimated Remaining Filter Life (in hours/days)

Enter a number...

Filter Inspection Findings

- [ ] Clean
- [ ] Slightly Soiled
- [ ] Moderately Soiled
- [ ] Heavily Soiled
- [ ] Damage Present
- [ ] No Visible Issues

Filter System Photos (Optional)

Upload File

Fan & Motor

Inspection of fan and motor performance, lubrication, and vibration checks.

Fan RPM (Revolutions Per Minute)

Enter a number...

Motor Amperage (Current Draw)

Enter a number...

Fan Static Pressure (in H2O)

Enter a number...

Motor Lubrication Status

- [ ] Lubricated as per schedule
- [ ] Lubrication needed
- [ ] Not Applicable - Sealed Motor

Motor Sound Level

- [ ] Normal
- [ ] Slightly elevated
- [ ] Excessive - Investigate

Notes on Motor and Fan Condition

Write something...

Last Lubrication Date (if applicable)

Enter date...

Exhaust Discharge & Airflow

Verification of exhaust discharge location and airflow adequacy.

Exact Location of Exhaust Discharge Point

Set My Current Location

Airflow Velocity (m/s or ft/min) at Discharge

Enter a number...

Static Pressure at Fan Inlet (Pa or in.wg)

Enter a number...

Discharge Location Complies with Regulations?

- [ ] Yes
- [ ] No
- [ ] N/A - Local Regulation Not Applicable

Observations regarding potential re-entrainment or nearby sensitive areas

Write something...

Is exhaust directed away from building intakes?

- [ ] Yes
- [ ] No
- [ ] N/A - No Building Intakes Nearby

Differential Pressure Across Filter (Pa or in.wg)

Enter a number...

System Monitoring & Alarms

Review of monitoring systems, alarms, and error logs.

Airflow Reading (CFM/m³/min)

Enter a number...

Static Pressure Reading (in. w.g / Pa)

Enter a number...

Alarm Status - Filter Pressure

- [ ] Normal
- [ ] Warning
- [ ] Alarm

Alarm Status - Airflow

- [ ] Normal
- [ ] Warning
- [ ] Alarm

Last Alarm Reset Date

Enter date...

Alarm History - Summary of Recent Events (last 30 days)

Write something...

Current System Operating Mode

- [ ] Automatic
- [ ] Manual
- [ ] Standby

Time of Last System Interruption

Maintenance Records & Documentation

Verification of maintenance schedules, records, and training documentation.

Last Filter Replacement Date

Enter date...

Filter Replacement Pressure Drop (inches of water)

Enter a number...

Description of any maintenance performed since last inspection

Write something...

Date of Last System Performance Test

Enter date...

Airflow Measurement (CFM) at Exhaust

Enter a number...

Filter Type

- [ ] HEPA
- [ ] Pleated
- [ ] Baghouse
- [ ] Other

Upload any relevant maintenance reports

Upload File

Notes/Comments on maintenance performed and system condition

Write something...

System Operational Training for Personnel Complete?

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

Safety & Emergency Procedures

Review of procedures for system failure, emergency shutdowns, and user safety.

Date of Last Emergency Drill Related to Fume Extraction Failure

Write something...

Describe the procedure to follow if the fume extraction system fails during welding operations.

Write something...

Is there a documented procedure for isolating welding operations during system maintenance?

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

Which personnel are trained on emergency shutdown procedures?

- [ ] Welding Technicians
- [ ] Facility Management Staff
- [ ] Safety Officer
- [ ] Maintenance Personnel
- [ ] Other (Specify in Long Text)

Date of last review of emergency procedures.

Enter date...

Describe the communication protocol used to notify personnel of a system failure.

Write something...

Are emergency contact numbers readily available near welding stations?

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

Estimated time required to restore system after failure (typically).