Sample LEV Testing Ltd
sample@example.com
01632 960000

EXAMINATION RECORD

Local exhaust ventilation Thorough examination and test

Unsatisfactory

Do not use until repaired. Follow the actions in this report.

Report reference	SAMPLE-0001
Client	Sample Joinery Ltd
Site	Sample Joinery workshop (made-up details)
System reference	LEV-01
Inspection date	5 November 2026
Next examination due	5 January 2028
Version	1

Prepared using LevHQ. The test engineer is responsible for the examination, readings and assessment.

This record does not imply endorsement or certification by LevHQ or ILEVE.

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Assessment order

Hoods and capture; clearance times; filter; HEPA filter; fan and drive; motor; controls; other equipment and ducting; duct test points; discharge; air sampling.

Sections follow the ILEVE TExT v1.5 page sequence. Extra records and longer observations continue onto additional pages.

1. Executive summary and actions

This is a sample report with made-up details. It shows what a LevHQ report looks like. The LEV system serving the table saw, planer, bandsaw and sander was examined and tested on 5 November 2026. Three of the four hoods meet their benchmark. The sander hood fails: its face velocity is 1.0 m/s against a benchmark of 1.8 m/s. The branch damper on the sander duct is partly closed. Duct velocity is 8.1 m/s, below the 18 m/s needed to carry wood dust, so dust can settle in the branch. One critical action is open. Benchmarks come from the 2024 commissioning report (made up for this sample).

Action 1 - Critical

Open and lock the sander branch damper at its commissioned position, clean the branch duct, then re-test the sander hood.

Responsible: Sample Joinery Ltd, workshop manager | Due: 4 Dec 2026

2. Client details

Client name: Sample Joinery Ltd

Client contact: Sample Contact

Client email: contact@example.com

Client phone: 01632 960001

Client address

Unit 2, Example Trading Estate
Exampletown
EX1 2BB

3. Site details

Site name: Sample Joinery workshop (made-up details)

Site postcode: EX1 2BB

Area or room: Main workshop

Site address

Unit 2, Example Trading Estate
Exampletown

Conditions during test

Doors closed, machines running normally, 18 degrees Celsius.

4. LEV plant details

System reference: LEV-01

Plant serial number: SAMPLE-0001

Plant asset number: AST-001

System description

Woodworking dust extraction system. Four machine hoods (table saw, planer, bandsaw, sander) feed branch ducts into one 225 mm main duct, then a bag filter, then the fan, which discharges outside. The filter is on the suction side of the fan.

Process, equipment and operating conditions

Machining of softwood and hardwood, one shift, five days a week

Hazardous agents and exposure limits

Wood dust (hardwood and softwood), WEL 5 mg/m3 8-hour TWA

4. Changes since commissioning

Changed since commissioning: No

Details of changes: Not recorded

5. Test engineer details

Engineer name: A. Sample

Qualifications: BOHS P601 (held), sample details

Engineer declaration signature: A. Sample

I have examined this system and recorded my assessment of control accurately.: Yes

Engineer contact details

Sample LEV Testing Ltd
1 Example Street, Exampletown, EX1 1AA
sample@example.com
01632 960000

6. Additional plant information

Testing interval in months: 14

COSHH risk assessment evidence: Sample COSHH assessment seen, dated 2026-01

DSEAR risk assessment evidence: Not recorded

Safety data sheets: Not recorded

Design specification: Not recorded

Logbook: Logbook present and up to date

Operating and maintenance manual: Operating manual seen

User training records: Not recorded

Reason for testing interval

Statutory maximum of 14 months under COSHH regulation 9.

7. DSEAR and ATEX

Substance flammable: Yes

Substance explosive: Yes

Explosive atmosphere assessment: Dust explosion risk assessed by the site

Work area zone: Not zoned

Hood zone: Not zoned

Plant zone: Zone 22 inside filter

Lower explosive limit: Not recorded

Upper explosive limit: Not recorded

Explosion vent required: No

Explosion vent fitted: No

Vent discharges to a safe place: Not recorded

Explosion vent condition: Not recorded

Non-return damper required: Not recorded

Non-return damper fitted: Not recorded

Connecting ductwork suitability: Not recorded

8. Conclusions and comments

Conclusions and assessment of control

This is a sample report with made-up details. It shows what a LevHQ report looks like. The table saw, planer and bandsaw hoods meet their benchmark face velocities. The sander hood does not: it measures 1.0 m/s against a benchmark of 1.8 m/s, because

the branch damper is partly closed. The system is not adequately controlling exposure at the sander until it is repaired. Benchmarks come from the 2024 commissioning report (made up for this sample).

Repairs or adjustments made

None made during the test.

Items likely to fail before the next test

Filter bags.

9. System schematic

None supplied.

10. Photographs



Example photograph: face velocity reading with a vane anemometer



Example photograph: static pressure reading at a test point



Example photograph: extraction ducts leading to the fan and filter unit

11. Assessment of LEV system

Hood readings

Record 1 - H1 Table saw

Hood reference: H1 Table saw

Hood type: Rear and overhead guard hood

Hood dimensions in metres: 0.25 x 0.20 (face area 0.050 m2)

Test kit used: Vane anemometer, smoke tube

Capture zone effective: Yes

Measurement	Benchmark	Measured
static pressure in Pa	-400	-450
velocity in metres per second	4.5	5
airflow in cubic metres per second	0.225	0.25

Hood test method

Face velocity grid of nine readings

Hood notes

Pass. 5.0 m/s x 0.050 m2 = 0.25 m3/s. Branch duct 125 mm at 20.4 m/s.

Record 2 - H2 Planer

Hood reference: H2 Planer

Hood type: Cutter block enclosure

Hood dimensions in metres: 0.30 x 0.25 (face area 0.075 m2)

Test kit used: Vane anemometer, smoke tube

Capture zone effective: Yes

Measurement	Benchmark	Measured
static pressure in Pa	-430	-480
velocity in metres per second	4.5	4.7
airflow in cubic metres per second	0.3375	0.35

Hood test method

Face velocity grid of nine readings

Hood notes

Pass. 4.7 m/s x 0.075 m2 = 0.3525, recorded as 0.35 m3/s. Branch duct 150 mm at 19.8 m/s.

Record 3 - H3 Bandsaw

Hood reference: H3 Bandsaw

Hood type: Lower wheel housing hood

Hood dimensions in metres: 0.15 x 0.10 (face area 0.015 m2)

Test kit used: Vane anemometer, smoke tube

Capture zone effective: Yes

Measurement	Benchmark	Measured
static pressure in Pa	-470	-520
velocity in metres per second	9	10

Measurement	Benchmark	Measured
airflow in cubic metres per second	0.135	0.15

Hood test method

Face velocity grid of nine readings

Hood notes

Pass. 10.0 m/s x 0.015 m2 = 0.15 m3/s. Branch duct 100 mm at 19.1 m/s.

Record 4 - H4 Sander

Hood reference: H4 Sander

Hood type: Downdraught table

Hood dimensions in metres: 0.40 x 0.25 (face area 0.100 m2)

Test kit used: Vane anemometer, smoke tube

Capture zone effective: No

Measurement	Benchmark	Measured
static pressure in Pa	-400	-150
velocity in metres per second	1.8	1
airflow in cubic metres per second	0.18	0.1

Hood test method

Face velocity grid of nine readings

Hood notes

FAIL. 1.0 m/s x 0.100 m2 = 0.10 m3/s, against 0.18 m3/s benchmark (1.8 m/s). The branch damper on the sander duct is partly closed. Duct velocity is 8.1 m/s (125 mm duct), below the 18 m/s needed to carry wood dust, so dust can settle in the branch. Dust escapes from the table.

11. Assessment: hoods and capture

Hoods in use at one time: All four machines can run together

Capture test method: Anemometer grid and smoke tube

Clearance time assessment applicable: No

Effective capture zone assessment

Dust seen being drawn into the table saw, planer and bandsaw hoods. Dust escaped from the sander hood during smoke tests.

Hood and control effectiveness notes

Sander hood fails to capture. The four hood flows add up to 0.85 m3/s (3,060 m3/h), which matches the main duct.

Clearance time readings

No records supplied.

Filter: visual assessment

Filter fitted: Yes

Filter type: Bag filter

Filter manufacturer: Sample Filters

Filter model: SF-4

Filter serial number: SF-0001

Filter media: Polyester

Filtration area in square metres: 24

Antistatic filter: Yes

Filter condition: Good

Air returned to workplace: No, discharged outside

Filter cleaning device: Reverse pulse	Filter cleaning device condition: Working
Cleaning duration: 0.2 seconds	Cleaning frequency: On differential pressure
Filter ATEX rating: Not recorded	Filter earth bonding: Not recorded
Filter non-return damper: Not recorded	High pressure ducting condition: Not recorded

Filter monitoring and alarms

Differential pressure gauge fitted and reading 750 Pa

Explosion relief and location: Not recorded

Filter: quantitative assessment

Contaminant breakthrough: Not recorded

Filter efficiency: Not recorded

Measurement	Benchmark	Measured
filter inlet pressure in Pa	-650	-700
filter outlet pressure in Pa	-1400	-1450
differential pressure in Pa	750	750
filter airflow in cubic metres per hour	3060	3060

Filter assessment notes

Pressure drop 750 Pa (inlet -700 Pa, outlet -1,450 Pa), gauge also reads 750 Pa. The manufacturer working range is 500 to 1,200 Pa, so the filter is within range.

11. Assessment: HEPA filter

HEPA air returned to workplace: Not recorded

HEPA filter fitted: Not recorded

HEPA filter type: Not recorded

HEPA manufacturer: Not recorded

HEPA model: Not recorded

HEPA serial number: Not recorded

HEPA media: Not recorded

HEPA filtration area in square metres: Not recorded

HEPA condition: Not recorded

ISO 14644-3 test evidence: Not recorded

HEPA last test date: Not recorded

HEPA next test date: Not recorded

HEPA contaminant breakthrough: Not recorded

HEPA filter efficiency: Not recorded

Measurement	Benchmark	Measured
HEPA inlet pressure in Pa	Not recorded	Not recorded
HEPA outlet pressure in Pa	Not recorded	Not recorded
HEPA differential pressure in Pa	Not recorded	Not recorded
HEPA airflow in cubic metres per hour	Not recorded	Not recorded

HEPA monitoring and alarm test results: Not recorded

HEPA test results: Not recorded

HEPA assessment notes: Not recorded

11. Assessment: fan and drive

Fan type: Centrifugal
Impeller type: Backward curved
Impeller plate RPM: Not recorded
Impeller direction of rotation: Correct
Fan direction of rotation: Correct
Fan manufacturer: Sample Fans
Fan model: SFN-450
Fan serial number: FN-0001
Fan ATEX rating: Not recorded
Fan size: Not recorded
Direct or belt drive: Belt
Fan pulley size: Not recorded
Motor pulley size: Not recorded
Pulley centres: Not recorded
Number of belts: 2
Belt type: SPA
Belt tension: Correct
Measured fan RPM: 2310
Measured motor RPM: 1440

Measurement	Benchmark	Measured
fan inlet pressure in Pa	-1450	-1500
fan outlet pressure in Pa	150	150
fan airflow in cubic metres per hour	3060	3096
fan total pressure in Pa	1600	1650

Fan monitoring and alarms: Not recorded

Fan and drive notes

Fan flow 0.86 m3/s is about 1% more than the 0.85 m3/s drawn through the hoods, from small leaks in the ductwork. Total pressure 1,650 Pa (outlet +150 Pa minus inlet -1,500 Pa). Guards fitted, no unusual vibration.

11. Assessment: motor

Electrical supply voltage: 400
Motor manufacturer: Sample Motors
Motor model: SM-7
Motor serial number: MT-0001
Motor rating in kW: 7.5
Motor plated current in amps: 14.8
Motor measured current in amps: 13.9
Motor ATEX rating: Not recorded
Motor plate RPM: 1440

Motor notes

Running within plated current.

11. Assessment: controls

On-off or variable speed drive: On-off

Manual or automatic controls: Manual

Speed setting: Not recorded

Controls condition: Good

Electrical compliance evidence

Isolator and starter in good condition

Alarms and warning devices

Low airflow alarm fitted and working

Controls notes: Not recorded

11. Assessment: other and ducting

Fire suppression system: Not recorded

Ducting material: Galvanised steel

Balancing dampers: Not recorded

Ducting inside condition: Clean, no build-up seen at hatches

Ducting outside condition: Good

Duct inspection hatches: Present and sealed

Flexible ducting condition: Good

Ducting earth bonding: Continuity confirmed

Explosion hatches: Not recorded

Other equipment and ducting notes

Dampers set and marked, except the sander branch damper, which is partly closed. Main duct 225 mm (0.0398 m2) carries 0.85 m3/s at 21.4 m/s.

Duct test point readings

Record 1 - TP1 Main duct before filter

Test point reference: TP1 Main duct before filter

Duct diameter in metres: 0.225

Measurement	Benchmark	Measured
duct static pressure in Pa	-650	-650
transport velocity in metres per second	18	21.4

Test point comments

0.85 m3/s in 0.0398 m2. Transport velocity adequate.

Record 2 - TP2 Table saw branch

Test point reference: TP2 Table saw branch

Duct diameter in metres: 0.125

Measurement	Benchmark	Measured
duct static pressure in Pa	-500	-500
transport velocity in metres per second	18	20.4

Test point comments

0.25 m3/s in 0.01227 m2. Adequate.

Record 3 - TP3 Planer branch

Test point reference: TP3 Planer branch

Duct diameter in metres: 0.15

Measurement	Benchmark	Measured
duct static pressure in Pa	-520	-520
transport velocity in metres per second	18	19.8

Test point comments

0.35 m3/s in 0.01767 m2. Adequate.

Record 4 - TP4 Bandsaw branch

Test point reference: TP4 Bandsaw branch

Duct diameter in metres: 0.1

Measurement	Benchmark	Measured
duct static pressure in Pa	-560	-560
transport velocity in metres per second	18	19.1

Test point comments

0.15 m3/s in 0.00785 m2. Adequate.

Record 5 - TP5 Sander branch

Test point reference: TP5 Sander branch

Duct diameter in metres: 0.125

Measurement	Benchmark	Measured
duct static pressure in Pa	-500	-200
transport velocity in metres per second	18	8.1

Test point comments

0.10 m3/s in 0.01227 m2. Low. Damper partly closed.

11. Assessment: discharge

Discharge type: Vertical stack

Stack height in metres: 6

Discharge location: Outside, away from air inlets

Stack discharge velocity in metres per second: 14

Discharge and recirculation assessment

No recirculation seen.

11. Assessment: air sampling

Air monitoring conducted: No

Air monitoring report reference: Not recorded

Air monitoring report date: Not recorded

Air sampling notes

None done during this test.

12. Calibration certificates

Instruments and calibration

Record 1

Instrument: Sample vane anemometer	Instrument serial number: SAMPLE-ANEM-001
Calibration date: 2026-03-02	Certificate reference: SAMPLE-CAL-001
Calibration expiry date: 2027-03-02	

Record 2

Instrument: Sample micromanometer	Instrument serial number: SAMPLE-MANO-002
Calibration date: 2026-03-02	Certificate reference: SAMPLE-CAL-002
Calibration expiry date: 2027-03-02	