

If you answer YES to any question, explosion zone classification is mandatory!

**1. QUESTION**

**Do you store flammable gas, solvent, alcohol or flammable liquid on site?**

E.g. petrol, acetone, alcohol, IPA, thinner, solvent, propane, butane, natural gas, LPG, paint.

- Petrol/diesel in cans or drums
- Storage of paints and solvents
- Gas cylinders (LPG, oxygen, acetylene)

YES

NO

**2. QUESTION**

**Is combustible dust generated in the process?**

E.g. flour, sugar, sawdust, metal swarf, coal dust, pharmaceutical powder, starch, cocoa powder.

- Dust forms during sieving, grinding, mixing
- Dusty area around cyclone, silo, conveyor

YES

NO

**3. QUESTION**

**Are there open handling points - filling, sampling, emptying, mixing?**

Where material is not fully enclosed, vapour, mist or dust can enter the air.

- Tank filling, emptying, sampling from open vessel
- Opening a pump or mixer during maintenance

YES

NO

**4. QUESTION**

**Can leakage, vapour formation or atomisation occur in the process?**

Leaks at pipe joints, valves, seals – or evaporating solvent, spraying.

- Dripping tank, leaking valve
- Evaporating solvent (paint, thinner)
- Dust release during emptying

YES

NO

**5. QUESTION**

**Do electrical devices (motors, switches, lights) operate in the hazardous area?**

If flammable material and electrical equipment are in the same area, ATEX compliance is mandatory.

- Motors, pumps, compressors in the hazardous area
- Switchboard or distribution panel nearby

YES

NO

**RESULT EVALUATION**

Number of YES	Rating	Recommended step
0 yes	Low risk	Consultation recommended on change
1-2 yes	Medium risk	Expert survey recommended
3-5 yes	High risk	ATEX zone classification and EPD mandatory

Free 30–60 minute online needs assessment – zone classification, EPD, Ex inspection

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