

**Company Health & Safety
Standard Method Statements and Bibliography**

**XIV
Gas & Oil**

Guidance Notes

- ACOP 20 Standards of training in safe gas installation
- ACOP L56 Safety in the installation and use of gas system appliances
- HSE Gas safety advise
- HSE Gas safety – Carbon Monoxide ‘the Silent killer’
- HSE Small scale use of LPG in cylinders
- HSE Use of LPG in small bulk tanks
- HSE Safe working with LPG fuelled motor vehicles
- HSE Safe working with LPG fuelled motor vehicles (do’s & don’ts)
- HSE take care with acetylene.
- HSE take care with oxygen
- HSE Asphyxiation Hazards in welding and allied processes
- HSE Safe working with flammable substances.

Forms

Risk assessment record.

Gas and Oil fuel supplies (Where part of the supply)

Qualifications

1. Installation of gas or oil fuel supplies will only be carried out by subcontractors who are CORGI trained and registered.
2. Commissioning of oven gas burner systems will only be performed by employees who are suitably trained to ACOP 20 standard or subcontractors who are CORGI trained and registered.
3. Commissioning of oven oil burner systems will only be performed by subcontractors who are specifically trained for the equipment installed.

Practices

1. Gas and Oil fuel supplies will be isolated and locked closed during all installation processes.
2. Pressure regulation and safety shut off systems will be fully certificated by the manufacturer as suitable for use and factory set.
3. Assure appropriate fire safety precautions will be in effect. (See Fire & Explosions SMS)
4. All flues will be checked for blockages or leaks and or back draughts prior to commissioning.
5. Commissioning will be carried out with due attention to ACOP 20 / L56.

LPG tanks and cylinders.

General Practices

1. For fixed installations refer to the section above (gas and oil fuel supplies)
2. Keep all LPG cylinders and tanks in a safe well ventilated place.
3. Ensure appropriate fire safety precautions will be in effect. (See Fire & Explosions SMS)
4. Ensure LPG cylinders are fixed and are kept upright.
5. Keep the area(where LPG cylinders are kept) free of rubbish or any combustible material.
6. Keep the area(where LPG cylinders are kept) free of any sources of ignition.
7. Keep people away from LPG cylinders as much as possible by use of fencing or guarding.

Gases used for welding and cutting

Qualifications

1. Employees and subcontractors will hold appropriate safety training certification with respect to welding and cutting gases.

Practices

Oxygen & Acetylene.

2. Acetylene cylinders will be handled with extreme care avoiding rolling, dropping or jarring during transport.
3. Oxygen cylinders will be handled with care avoiding rolling, dropping or jarring during transport.
4. Flash back arresters will be used in combination with non return valves and certificated pressure regulation valves for each cylinder.
5. Oxygen cylinders will be vertically stored in a secure, well ventilated area, separate from cylinders of flammable gas (e.g. Acetylene)
6. Acetylene cylinders will be vertically stored in a secure, well ventilated area.
7. Hoses will be maintained in good condition.

Inert (asphyxiant) gases (Particularly Argon, Nitrogen, Carbon dioxide)

1. Inert gases should be used in well ventilated areas.
2. Inert gases are not to be used in a confined space unless
 - a. A “permit to work” is issued with respect to Confined Spaces regulations 1997.
 - i. The need to avoid entry into such a confined space, where reasonably practicable
 - ii. A safe system of work is established
 - iii. Adequate emergency procedures are in place.
 - b. Adequate PPE (respiratory) is provided

Carbon Monoxide. (Poisonous gas)

Practices

1. Employees and subcontractors will be vigilant around all naked flame processes where carbon monoxide may be a by product and report any suspicions to the site safety representative
 - a. Yellow or brown staining around appliances
 - b. Pilots lights that frequently blow out
 - c. Local condensation
 - d. Yellow flame where a blue flame should be present.