This brochure illustrates the six principles of LP Gas safety

Container design

2 Installation of tanks

Risk control measures

Emergency planning measures

References for LP Gas storage and handling activities

References for LP Gas transport activities



Useful resources

Department of Local Government, Industry Regulation and Safety,

Guidance notes

Storage of explosives

Transport of explosives on roads and at mines www.worksafe.wa.gov.au/DangerousGoods

Western Australian Legislation www.legislation.wa.gov.au

National Transport Commission www.ntc.gov.au



www.worksafe.wa.gov.au/DangerousGoods

This publication can be available on request in other formats for people with special needs.

Further details of safety publications can be obtained by contacting:

Telephone: 1300 307 877

Email: wspublications@lgirs.wa.gov.au



Department of Local Government, Industry Regulation and Safety Dangerous Goods Safety

DANGEROUS GOODS SAFETY MATTERS



WSDec25 1500



1. Container design

- Cylinders to comply with AS 2030.1
 Gas cylinders Part 1: General requirements
- Cylinders manufactured to AS 2469 Steel cylinders for compressed gases and tested at approved test stations
- Tanks certified as pressure vessels to AS 1210, with current WorkSafe Vessel Registration
- Periodic in-service inspection to AS 3788 Pressure equipment – in-service inspection
- LPG road tankers designed to AS 2809.3 Tankers for compressed liquefiable gases

2. Installation of tanks

- Facility design and installation to comply with AS 1596 The storage and handling of LP Gas, or demonstrate equivalent safety
- Design and selection of foundations, fixtures, pumps, manifolding, regulators, venting and pipework to be undertaken by competent LP Gas industry personnel
- Tank installations exceeding 5,000 litres require DG Site Licence, a formal LGIRS application and risk assessment submitted to WorkSafe

3. Risk control measures

- Separation of LP Gas from dwellings, workshops and offices
- Segregation of LP Gas from incompatible dangerous goods and fuel storage
- Protection provided to prevent vehicular impact on tanks and fittings
- Adoption of safe transfer procedures
- Exclusion of ignition sources in vicinity of tanks, cylinders and decant points
- Control of explosive gas atmospheres ventilation and electrical equipment rating
- Control of fire hazards removal of adjacent combustible material

4. Emergency planning measures

- Emergency plan adopted and rehearsed with staff and contractors
- · Appropriate fire-fighting equipment
- Training of staff in contingency measures





5. References for LP Gas storage and handling activities

- Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007
- Static storage: see AS 1596 The storage and handling of LP Gas
- Exchange LP Gas cylinder facilities: see Appendix G of AS 1596
- Mobile use of oxy-fuel systems: see AS 4839 The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes
- Decanting: LP Gas suppliers have standard procedure. Also see Appendix J of AS 1596

6. References for LP Gas transport activities

- Transport of LP Gas in quantities exceeding 250 litres is described as placard load transport and is regulated under the Dangerous Goods Safety (Road and Rail Transport of Non-explosives) Regulations 2007 (www.legislation.wa.gov.au)
- Technical requirements for transport are contained in the Australian Dangerous Goods Code (www.ntc.gov.au)
- Responsibilities are defined for:
 - Consignor
- Prime contractor

Driver

Vehicle owner

Loader