

## Risk Assessment

Date; 13 / 08 / 14

**Activity description;** Working with compressed gases and compressed gas systems.

Main Hazard(s), this is a list of all the hazards that were foreseen as far as is reasonably practicable	Probability of hazard occurrence 0 -	Seriousness 1-10 (1 is less).	Action to be taken?
High pressure gases that are contained in storage vessels or pipe-line, rupturing or venting suddenly.	0.3	9	Take care when working round high pressure gas systems or storage containers. Inspect all equipment is safe before commencing work.
Failure of seals after maintenance and/or during operation and causing injury.	0.75	8	Install all seals and perform maintenance in accordance with the manufacturers specification
Explosion hazard from various gases	0.25	10	Don't work with unless absolutely essential, wear suitable PPE.
High velocity gas causing damage and/or injury from venting directly to atmosphere.	0.5	9	Wear suitable PPE and be wary of pressure relief points.
excessive heat from compressing gases too quickly	0.1	5	Wear suitable PPE, don't touch gas systems unless you are sure there is no pressure left in the system. Leave all systems at least half an hour after venting before carrying out work.
Failure of pressure vessel/system during safety test.	0.25	9	Take care and wear suitable PPE, stop the test if it becomes dangerous. Put up some signs to warn stray passers-by.
Oxygen depletion from leaks	0.5	10	Use gas detectors to monitor oxygen and hazadous gas levels. If levels drop too low,stop work, evacuate the area and call in the experts.
People who are not competent trying to work with compressed gas or gas systems	1	8	Stop user from working immediately and report them to their supervisor who is responsible for their work. Do not let them re-commence work until they have proven they are competent to carry out the task(s).
Mean probability of any hazard occurring	0.45		
Overall seriousness where 1 is minimal damage and 10 is very serious damage	8		

**This risk assessment is to be used as a guide, only. Each person is responsible for investigating thoroughly and ensuring their working practices are safe, as well as reviewing their working practices regularly, in-line with national rules and guidelines.**