## Compressed Gases - Risk assessment form

## Introduction

The Management of Health and Safety at Work Regulations 1999 require every employer to make a suitable and sufficient risk assessment of the risks to health and safety of his employees to which they are exposed while at work. With regard to gases and cryogenics, other more specific regulations may also need to be considered, namely:-

- The Confined Space Regulations 1997
- The Control of Substances Hazardous to Health Regulations 2002 (as amended)
- The Pressure Systems Safety Regulations 2000
- The Provision and Use of Work Equipment Regulations 1998
- The Manual Handling Operations Regulations 1992
- The Dangerous Substances and Explosive Atmospheres Regulations 2002

Person respons	ible for this activity;			
Name;	Position;		School;	
Dept;	Professional S	Professional Service;		
Signature;	Da		ite;	
Person conduct	ing this assessment			
Name;	Position;		School;	
Dept;	Professional S	Professional Service;		
Signature;		_ Dat	Date;	
Where will this a	activity be conducted	?		
Room(s);	Building;		Area of campus;	
Dept;	Professional S	ervice;	School;	

## Part 1 Identification of hazards

Indicate as

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		appropriate	
1	Are non-flammable, non-toxic "industrial" gases used in the activity?	Y / N	List type & cylinder size;
2	Are flammable gases used in the activity?	Y / N	List type & cylinder size;
3	Are gases with any other hazardous property (e.g. toxic, corrosive etc.) used in the activity?	Y / N	List type, cylinder size & hazardous properties;
4	Are medical gases used in the activity?	Y / N	List type and cylinder size;
5	Are cryogenic liquids used in the activity?	Y / N	Substance(s);
6	Does the activity involve mixing fuel gas with oxidising gas and the resulting mixture being burned?	Y / N	Describe;
7	Are the gas cylinders / vessels located within a laboratory or workshop?	Y / N	
8	Are the gas cylinders / vessels in a remote location and the gases / liquids piped to a point of use?	Y / N	Describe;
9	Is manual handling of gas cylinders / vessels into position a necessity?	Y / N	Describe;
10	Does the room where the gases / vessels are located benefit from forced ventilation?	Y / N	Describe;
11	Is a lift used to transport cylinders / vessels between floors?	Y / N	Describe;
Part 2 Peopl	e at risk		
1	Identify those people who may be at risl from the activity and how they might be harmed	Workers d	irectly involved in the activity;
		Other work E.g. cleand Workers	kers in the vicinity; ers, ancillary or maintenance
		Others;	
Part 3 Existi	ng control measures	Indicate as	

Further asse	essment	appropriate	
	If the answer to Q2 of Part 1 is "Yes",	Y / N	If yes, give Ref. No;
	then a separate DSEAR risk		
	assessment is required. Has this been		
1	If the answer to O3 of Part 1 is "Yes"	V / N	If yos, give Ref. No:
1	then a senarate COSHH risk	T / N	li yes, give Rei. No,
	assessment is required Has this been		
	done?		
2	If the answer to Q's 7 & 9 of Part 1 is	Y/N	If yes, give Ref. No;
	"Yes", then a separate manual		
	handling risk assessment is required.		
	Has this been done?		
3	If the answer to Q 11 of Part 1 is	Y / N	If yes, give Ref. No;
	"Yes", then a separate confined space		
	risk assessment is required. Has this		
Diversity of a sector			
Piped Syster	If a piped system is in place, is it	V / N	Details of contractor:
4	inspected and maintained in	T / N	
	accordance with the relevant		
	Regulations?		
5	If a piped system is in place, is it	Y/N	Describe;
	subject to any user inspections?		
Storage and	use		
6	Are cylinders stored upright and	Y / N	
	properly secured, (e.g. by chains or		
-	straps)?		
1	Are cylinders correctly segregated?	Y/N	Describe;
8	Are measures in place to minimise the	Y/N	
	number of cylinders located in the	.,	
	laboratory?		
9	Is appropriate signage present in	Y / N	
	areas where cylinders are stored and		
	used?		
10	Is the area spacious enough, clean	Y/N	
11	and adequately lit?		Describe:
11	is the room adequatery ventilated?	T/N	Describe,
12	Is there means of detecting Oxygen	Y/N	Make, model and serial number:
	deficiency (e.g. static monitor /		
	alarm)?		
13	Is the monitor subject to a suitable	Y/N	Details;
	service / maintenance regime?		
14	Are cylinders kept away from sources	Y / N	Describe;
45	or ignition and other flammables?		Describer
15	IT Cylinders are stored outside, are	Y/N	Describe;
	iney protected from unauthorised		

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	tampering (e.g. caged)		
16	Are cylinders protected from extremes	V / N	Describe:
10	of temperature?	1 / 1	
17	Are regulators correct for the job and	V / N	
17	Are regulators correct for the job and	T / N	
	compatible with the gases in		
10	question?		
18	Are regulators suitable for the inlet	Y / N	
	pressure generated?		
19	Are regulators within their 5 year	Y / N	
	working lifespan? (2 years for those		
	used with corrosive gases).		
20	Are regulators subject to annual	Y/N	Details:
	maintenance checks?		
21	Are regulators subject to user	V / N	Details:
21	checks?	1 / 1	Details,
	CHECKS !		
22	Are correct to all available for fitting		
22	Are correct tools available for fitting	Y/N	
	regulators and accessories?		
23	If the answer to Q6 of Part 1 is "Yes"	Y / N	
	have non-return valves and flashback		
	arrestors been fitted?		
Personal Pro	otective Equipment (PPE)		
24	Where necessary, is suitable PPE	Y / N	Type;
	available for users? E.g. gloves,		
	goggles, full face protection etc)		
25	Is PPE adequately stored?	Y/N	Details:
26	Is there any special emergency	V / N	
20	equipment required? (E.g. breathing	1 / 1	
	apparatus (PA))		
07	apparatus (DA)).		Make model earial ne and leastions
27	is the equipment available and	Y/N	Make, model, serial no. and location;
	suitably maintained?		
Emergency	procedures		
28	Are emergency procedures defined	Y / N	Details;
	and are all users familiar with what to		
	do in an emergency?		
	C ,		
Information	. instruction & training		
29	Is the material safety data sheet	Y/N	
	(MSDS) available and are users	. /	
	(WODO) available and are users		
	aminar with the properties of the		
	gas?		
30	Have users received adequate	Y / N	Describe;
	instruction and training within the		
	School / Department?		
31	Are formal training records kept?	Y / N	Details:
		1 / 1	

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32	Have users attended any formal compressed gas / cryogenics training courses?	Y / N	Details;
33	If applicable, have users been trained in the use of emergency equipment?	Y / N	Details;