

# Authorised Gas Tester Workplace Competence Assessment

Upon completion the JMS Consultants Authorised Gas Tester course, delegates should be assessed onsite using the following criteria

#### **Competence Assessment levels**

Authorised Gas Tester: Personnel undertaking this role will be assessed against the Competence Units 1, 2 & 3

Authorised Gas Monitor: Personnel undertaking this role will be assessed against Competence Unit 3

The following units and elements apply:

Unit 1	Perform a Test for Oxygen, Flammable and Toxic Gases in Confined Spaces
Element 1.1	Prepare to carry out a test for oxygen, toxic and flammable gases in confined spaces
Element 1.2	Complete the gas test for oxygen, toxic and flammable gases in confined spaces
Unit 2	Perform a Test for Flammable Gases in Preparation for Hot Work
Element 2.1	Prepare to carry-out a test for flammable gases in preparation for hot work
Element 2.2	Complete the gas test for flammable gases
Unit 3	Monitor the Work Area for Flammable Gases

Element 3.1 Monitor the work area for flammable gases

\*During this assessment the candidate must take account of the relevant operational requirements and safe working practices – As they apply to the candidate

Assessors will be discipline experts trained and qualified in assessment techniques

#### **Assessment methods**

D = Direct observation

S = Simulated at workplace

I = Inspection of output (e.g. permits)

Q = Questioning



		Authorised Gas Tester Workpl Assessor Check		Com	petence		
Candid	date Name:			Co	ompany:		
Asses	sor Name:				•		
		Unit Wide Knowledge and Unde	rstan	ding	<u>Criteria</u>		
Ref No.	Ref No.   Performance Criteria   Achieved Y/N   Assessment Method   Control						
(a)	How to select, use and care for PPE for different toxic and flammable gases - to include both sight and hearing protection, gloves, footwear, hard hats and coveralls						
(b)	atmospheric	ns and weaknesses of the various types of flammable and toxic gas detection to include transportable, portable and onitors					
(c)	The implicat requirement	ions of organisational and statutory s					
(d)	•	ions of Occupational Exposure Limits for and toxic gases					
(e)		s associated with working within a toxic, or Non-Life supporting atmosphere					
(f)	How to work system	both with and within the Permit to Work					
(g)		pret operational requirements - to include cedures, instructions, codes of practice ds					
(h)	The range a limits	nd frequency of tests and their acceptable					
(i)	The hazards inert gases	s and properties of flammable, toxic and					
(j)	The principle space entry	es of gas testing as applied to confined					
(k)		production operation being tested for and toxic gases					
Δςς	essor			Δςςς	ssment		

Date:

Signature:



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		Authorised Gas Tester Workp Assessor Check		Com	petence	
Candid	date Name:			Co	mpany:	
Asses	sor Name:				•	
<u>,</u>	Jnit 1 - Perf	form a Test for Oxygen, Flammable ar	nd To	xic G	ases in Co	nfined Spaces
Ref No.		Assessment Method	Comments			
1.1	_	carry out a test for oxygen, toxic and gases in confined spaces				
1.1.1	personnel to	a risk assessment with the relevant identify and confirm all the types of hazards and their possible locations				
1.1.2	appropriate	spected and prepared for use the oxygen or gas detector(s) in accordance vant instructions				
1.1.3	Confirmed th	ne equipment functional and fit for purpose				
1.1.4	Identified eq remedial act	uipment defects and taken the appropriate ion				
1.1.5		ne status of the relevant work permits and ns with the relevant personnel				
1.1.6	Selected the appropriate documentation for the test and environment					
1.1.7	Worked safe requirements	ely in accordance with operational s.				
1.1.8	How to acce instructions	ss and interpret the relevant operational				
1.1.9		uce general risk assessments and how to n the workplace				
1.1.10	gases includ	and properties of flammable and toxic ling oxygen deficiency and enrichment, I specialist materials appropriate to the				
1.1.11	The different application	t types of detectors used for the relevant				
1.1.12		p the relevant detector for each gas cation and confirm its correct functioning				

How to correctly select between aspirating and non-

1.1.13 aspirating detectors to obtain a representative sample

of the atmosphere being tested



Ref No.		Performance Criteria	Achiev Y/N	Assessmer Method	Comments
1.1.14	measuring	ing principles of atmosphere monitoring and equipment including their strengths and frequently observed failure modes			
1.1.15	The potenti oxygen defi	ial cumulative effects of operations within an icient, toxic or flammable environment			
1.1.16	How to doc personnel	cument the results and advise relevant			
	essor ature:		A	ssment ate:	

In preparing to carry-out a test for oxygen, toxic and flammable gases in confined spaces you must use the following pieces of equipment and /or operations:

- (a) Personal protective equipment
- (b) Portable atmospheric monitoring equipment relevant to the test in hand
- (c) Work permits and authorisation documentation
- (d) Recording documentation
- (e) Personal monitoring equipment



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		Authorised Gas Tester Workpl Assessor Check		Com	petence		
Candio	date Name:			Co	ompany:		
Asses	sor Name:				_		
<u>।</u>	Jnit 1 - Per	form a Test for Oxygen, Flammable ar	nd To	xic G	ases in Co	nfined Spac	<u>es</u>
Ref No.		Performance Criteria		eved /N	Assessment Method	Comme	ents
1.2	_	he gas test for oxygen, toxic and gases in confined spaces					
1.2.1	=	the gas test to conform to statutory and nal requirements					
1.2.2	Effectively urelevant inst	used equipment in accordance with the tructions					
1.2.3	Confirmed t	onfirmed the readings were within the specified limits					
1.2.4		ny deviations and took appropriate action in with work place requirements					
1.2.5		ely and in accordance with operational relevant to confined spaces					
1.2.6	_	recorded the results of the test on the documentation					
1.2.7	How to inter abnormal	pret the results, to include both normal and					
1.2.8		able levels of flammable and toxic gases rect amount of oxygen					
1.2.9		our of different gases – to include heavier lighter than air behaviour and "neutral effect					
1.2.10		te portable or transportable equipment that to continuously monitor the atmosphere					
1.2.11		nin a representative atmosphere sample e of confined spaces					
Ass	essor			Asse	essment		

Signature:

Whilst completing the test for oxygen, toxic and flammable gases in confined spaces you must use the following:

(a) Portable atmospheric monitoring equipment to include oxygen, flammable and toxic gas detectors, including both

electrical and chemical stain types

Date:

- (b) Personal monitoring equipment
- (c) Gas testing techniques to include physical measurements, observation, sampling, records and data assessment
- (d) Relevant Instructions to include legislation, codes of practice, manufacturers' and company instructions



			Authorised Gas Tester Workpl Assessor Check		Com	petenc	е	
Candid	date Name	э:			Co	mpany:		
Asses	sor Name:	:						
	<u>Ur</u>	nit	2 - Perform a Test for Flammable Gas	ses in	Prep	aration	Hot	Work
Ref No.			Performance Criteria	Achi Y	eved ′N	Assessm Metho		Comments
2.1	_		carry out a test for flammable gas in for hot work					
2.1.1	personne	l to	a risk assessment with the relevant identify and confirm all the types of hazards and their possible locations					
2.1.2	appropria	ite d	spected and prepared for use the oxygen or gas detector(s) in accordance vant instructions					
2.1.3	Confirmed	d th	ne equipment functional and fit for purpose					
2.1.4	Identified remedial a		uipment defects and taken the appropriate ion					
2.1.5			ne status of the relevant work permits and as with the relevant personnel					
2.1.6	Selected t		appropriate documentation for the test nent					
2.1.7	Worked s requireme		ely in accordance with operational					
2.1.8	including	оху	and properties of flammable gases gen deficiency and enrichment and aterials appropriate to the location					
2.1.9	-		uce general risk assessments and how to n the workplace					
2.1.10	detectors	use ngth	g principles of the different types of ed for the flammable product including ns, weaknesses and frequently observed s					
2.1.11			ectly set up the relevant detector for each application					
2.1.12			ectly select between aspirating and non- etectors, relevant to the atmosphere being					
2.1.13	How to do		ment the results and advise relevant					
	essor ature:					ssment ate:	·	



In preparing to carry out a test for flammable gases you must use the following pieces of equipment and/or operations:

- (a) Personal protective equipment
- (b) Portable atmospheric monitoring equipment relevant to the test in hand
- (c) Work permits and authorisation documentation
- (d) Recording documentation
- (e) Personal monitoring equipment



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		Authorised Gas Tester Workpl Assessor Check		Com	petence		
Candid	date Name:			Co	ompany:		
Asses	sor Name:				'		
	<u>Unit</u>	t 2 - Perform a Test for Flammable Gas	ses in	Prep	paration H	ot Work	<u> </u>
Ref No.		Performance Criteria	Achie Y/		Assessmen Method	t	Comments
2.2	Complete t	he gas test for flammable gases					
2.2.1		the gas test to conform to statutory and nal requirements					
2.2.2	Effectively u	used equipment in accordance with the tructions					
2.2.3	Confirmed the readings were within the specified limits						
2.2.4	Identified any deviations and took appropriate action in accordance with workplace requirements						
2.2.5		ely and in accordance with operational relevant to the work area					
2.2.6	-	recorded the results of the test on the documentation					
2.2.7	The principl work area	es of hot work gas testing as applied to the					
2.2.8	How to inter abnormal	rpret the results, to include both normal and					
2.2.9		able levels of flammable gases and the bunt of oxygen					
2.2.10		our of different gases – to include heavier I lighter than air behaviour and "neutral effect					
2.2.11		te portable or transportable equipment that to continuously monitor the atmosphere					
Ass	essor			Asse	essment	· <del></del>	

Signature:

Whilst completing the test for oxygen, toxic and flammable gases in confined spaces you must use the following:

- (a) Transportable and portable atmospheric monitoring equipment
- (b) Personal monitoring equipment
- (c) Gas testing techniques to include physical measurements, observation, sampling, records and data assessment

Date:

(d) Relevant Instructions to include legislation, codes of practice, manufacturers and company instructions



		Authorised Gas Tester Workp Assessor Check		Com	petence	
Candid	date Name:			Co	ompany:	
Asses	sor Name:					
		Unit 3 - Monitor the work area fo	r Flan	nmab	le Gases	
Ref No.		Performance Criteria	Achie Y/		Assessment Method	Comments
3.1	Monitor the	work area for flammable gases				
3.1.1	Accurately s	ited the equipment for optimum benefits				
3.1.2	Monitored th	ne level of gas at intervals as required by rmit				
3.1.3	Effectively a gas monitor	nd regularly checked the operation of the				
3.1.4	Identified an personnel	d reported any deviations to the relevant				
3.1.5		nat the detector / monitor is correctly o a flammable gas atmosphere				
3.1.6	and flammal	ct, use and care for PPE for different toxic ble gases - to include both sight and ection, gloves, footwear, hard hats and				
3.1.7	requirement	ions of organisational and statutory s - to include Occupational Exposure mmable gases				
3.1.8	How to work system	both with and within the Permit to Work				
3.1.9		ess and interpret operational requirements - plicies, procedures, instructions, codes of standards				
3.1.10	The hazards	s and properties of flammable gases				
3.1.11	The type of flammable g	production operation being tested for ases				
3.1.12	<u> </u>	nce of checking the controls on the s as specified				
3.1.13	The importa	nce of regular communication				
3.1.14	Who to cont resolve	act if there is a problem you cannot				
3.1.15	What docum	nentation needs to be completed				



Ref No.		Performance Criteria	Achie Y/		Assessm Method	Common	nts
3.1.16	How a fla the hot we	mmable gas or vapour clouds could arrive at ork site					
	The behaviour of different gases – to include heavier than air and lighter than air behaviour and "neutral buoyancy" effect						
Assessor Signature:					ssment ate:		

Whilst monitoring the work area for flammable gases you must use:

- (a) Transportable and portable atmospheric monitoring equipment
- (b) Personal monitoring equipment