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What is Confined Space Working ?

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An Introduction to Enviroco

A presentation to the - Marine Safety Forum



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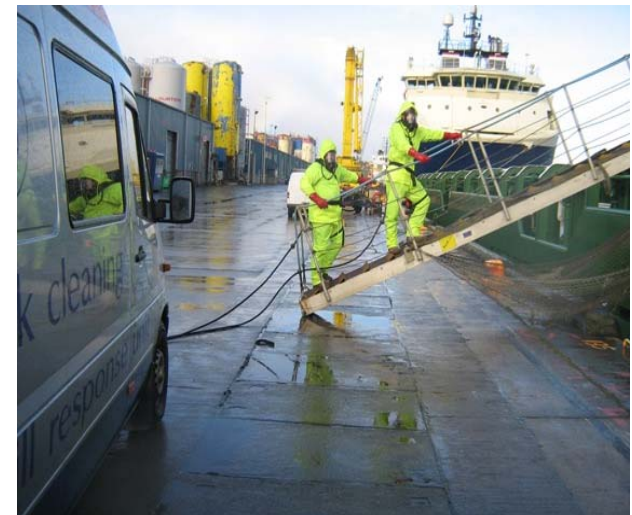
Enviroco - An Overview

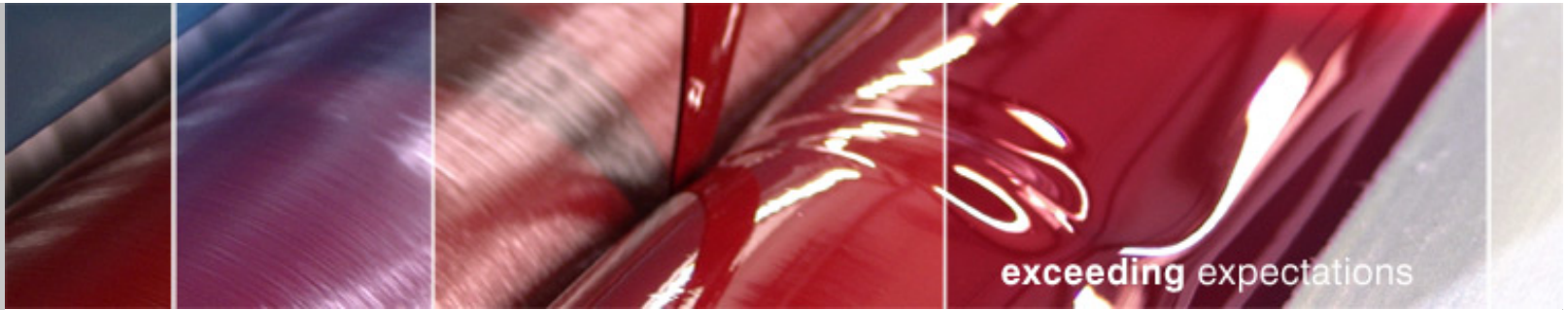
- Established in 1998
- Leading waste management provider to the UK Oil and Gas sector
- ISO 9001, ISO 14001, OHSAS 18001 Accredited
- Part of the ASCO group of companies



Industrial Cleaning

- Market Leader
- Strong safety focus
- Experienced staff
- Modern, technically advanced equipment
- 24 hour response service
- Confined space entry specialists
- High Pressure (HP) & Ultra-High Pressure (UHP) cleaning
- Expanding geographical coverage





Legislation

- New changes in legislation (Barbour Index)
- Changes to Procedures (Reviewed on regular Basis or if Circumstances/Task changes)
- Changes to Risk Assessments (Reviewed on regular Basis or if Circumstances/Task changes)



Procedures

- Understanding procedures
- Following the procedure process
- Reading and signing off on the procedure
- Changes to Procedures



Risk Assessment

- Understanding Risk
- Rolling out of Risk Assessments
- Refresher Training

Training on Risk Assessment
Updating Risk Assessments

enviroco TASK BASED RISK ASSESSMENT FORM											
Business Unit		Enviroco	Business Dept		Tank Cleaning	Reference Number		ENVTC 01	Date		02/04/08
						Revision Number		15			
Task Description		Vessel tank clean	Responsible Manager		G Thomson	Assessed by		G Thomson, A Buchan, L Duncan, N Low			
Job Steps	HAZARD		INITIAL RISK			CONTROLS		RESIDUAL RISK			
	Hazard Description	Hazard Effect	Hazard Severity	Likelihood of Occurrence	Risk Rating	List all Controls Required		Hazard Severity	Likelihood of Occurrence	Risk Rating	
Separate the job into individual tasks and record in sequence.	Describe all hazards identified for each task based on observation and experience. Note: Additional hazards may be caused by interaction with other work.	Describe hazard effects for each task based on observation and experience.	From matrix, identify severity with no controls in place for each hazard.	From matrix, identify likelihood with no controls in place for each hazard.	Classify risk rating from matrix for each hazard.	Describe fully all controls applicable for each hazard e.g. if PPE is used as a control, it must be specifically described. If a control can only be verified by documentation then it must be available. All controls must be valid in that they reduce severity, likelihood or both.		From matrix, identify severity with controls in place for each hazard.	From matrix, identify likelihood with controls in place for each hazard.	Classify risk rating from matrix for each hazard.	
Job allocation, receiving instructions from client.	Unknown job area and product type.	Personal injury, contamination by product, use of untrained personnel for job, incorrect equipment.	4	4	16	Always ensure detailed instructions are received about job scope, vessel, quay, tank locations, product contained, along with Material Safety Data Sheet. Only approved equipment to be utilised. Review MSDS sheet and subsequent COSHH assessment from folder in van; initiate control measures as indicated. Always ensure trained & certified personnel used.		4	1	4	
Make contact with vessel Master or Mate for permit to work.	Uncontrolled activity on vessel, conflicting activities on vessel. No awareness of third party presence on vessel.	Personal injury, damage to asset.	4	4	16	When arriving at vessel, all personnel when boarding must sign in the visitors book (including 3 rd Party Contractors) and when leaving vessel they must sign out. On every occasion work is to be carried out on/in a vessel tank, that a PERMIT TO WORK and UKCOA checklist are in place and valid, having reviewed the work-site for hazards and SUBSEQUENT risks to personnel or asset. Ensure appropriate isolations have been completed, double check. Establish effective communication links. Toolbox talks with relevant personnel and sign off. To ensure that when working with soap or any other chemicals that the COSHH Assessment and MSDS sheets are read and that the proper PPE is worn at all times. Ensure site is left in safe condition after use and permit suitably signed off / closed. On every occasion all work force tank cleaning crews names must be listed on P.T.W.		4	1	4	
Assessor's signature		N Low			Responsible Manager's signature		G Thomson				

What is a Confined Space

- It can be any space of an enclosed nature where there is a risk of death or serious injury from hazardous substances or dangerous conditions (eg Lack of Oxygen) Some confined spaces are fairly easy to identify, eg enclosures with limited openings:

Storage tanks---Silos---Reaction Vessels---Enclosed drains--- Sewers.

- Others may be less obvious, but can be equally dangerous, For example:

Open-topped chambers---Vats---Combustion chambers in furnaces etc---
Ductwork---Unventilated or poorly ventilated rooms.

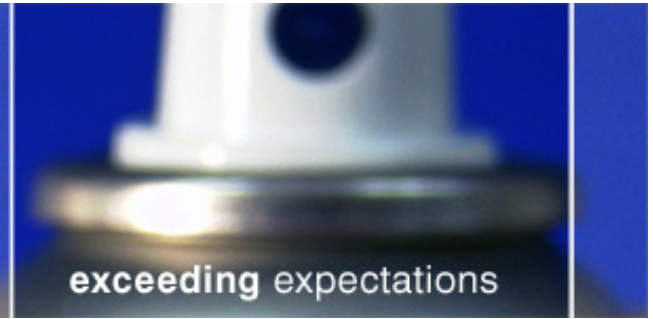
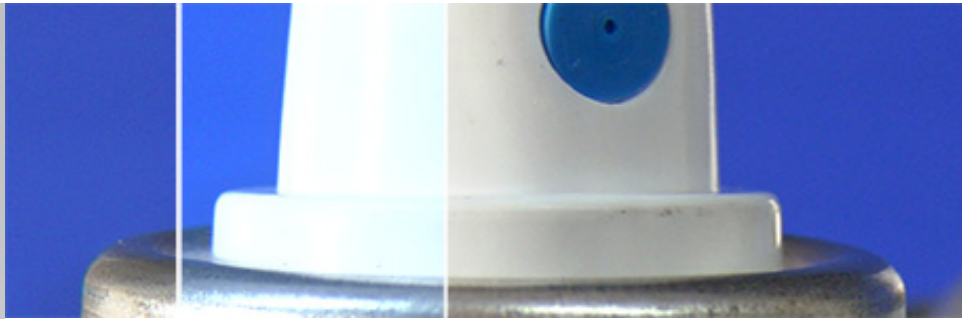


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Emergency Rescue

- Onsite Toolbox Talk
- Training Exercises
- Rescue Equipment
- Emergency Contacts
- Muster Points
- Identify Exit Routes





Gas Testing

- Oil and Gas UK Checklist(Formally UKOOA)
- Testing Space Prior To Entry
- Calibration Of Sampling Detectors
- Recording Of Gas Readings
- Gas Testing Equipment
- Permit to Work

THIS PERMIT DOES NOT AUTHORISE HOT WORK

ENVIROCO ENTRY PERMIT

SECTION 1 - DESCRIPTION

Permit No. _____ / E / _____ Nature of Work (Please Tick as appropriate)
 Inspection Cold Work Hot Work

Contractor _____ Environment Responsible Person Dev-ite _____ End-use Position _____ End-use Emergency Contact No. _____

Previous Permit No. _____ / E / _____

Location of Work Site: _____

Description of Work: _____

SECTION 2 - PRECAUTIONS

1. Emergency Controls	Decide as Applicable YES NO	7. Safety harness with Loline available, not used	Decide as Applicable YES NO
2. Air Line BA	YES NO	8. Tally Board at Space Entrance	YES NO
3. Self Contained BA	YES NO	9. Standby Guardian	YES NO
4. Full Protective Clothing	YES NO	10. Fire Extinguishers and Evacuation Procedures	YES NO
5. Full Respirator (PFD) Suit	YES NO	11. Other Requirements (Specify)	YES NO
6. Safety Harness with Fixed Loline	YES NO		

Certificate of Working Atmosphere

1. An Authorised Gas Tester has tested the atmosphere of the above location with the following results:

Combustible Gas (% LEL) _____ Oxygen (%) _____ Other Tests _____

Print Name _____ Signed _____ Date _____ Time _____

SECTION 3 - AUTHORISATION

Permit Authorisation

Conditions (checked, with any proposed) Supervising Authority End-use _____
 Print Name _____ Signed _____ Date _____ Time _____

Permit Validity

This Permit is valid from: _____ to _____

MAXIMUM 24 HOUR PERIOD

SECTION 4 - ACCEPTANCE

Permit Acceptance

Conditions understood and accepted Performing Authority _____
 Print Name _____ Signed _____ Date _____ Time _____

GAS TESTS

Gas Test Equipment Serial No. _____ Calibration Date _____

REASONS					Print Name	Signature
Time	Date	Combustible Gas (% LEL)	Oxygen (%)	Toxic Gases Other Gases		

PERSONS AUTHORISED TO ENTER CONFINED SPACE

Names	Blood Tests	B.A./Confined Space Entry Training	Certificate Expiry Date
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			

SECTION 5 - COMPLETION / CANCELLATION

COMPLETION OF WORK

I certify that the work for which this permit was issued has been completed and that all personnel and equipment have been removed from the atmosphere with. Personnel have been notified that no entry is to longer take.

Print Name _____ Signed _____ Performing Authority _____ Date _____ Time _____

WORK NOT COMPLETE

This Permit is now cancelled, with continuing on: Permit No. _____ / E / _____

Print Name _____ Signed _____ Performing Authority _____ Date _____ Time _____

CANCELLATION OF PERMIT

The permit is now cancelled.

Print Name _____ Signed _____ Supervising Authority _____ Date _____ Time _____





Tank Contents

- MSDS Sheets
- UKOOA Analysis
- SEPA Note
- UKOOA Checklist
- COSHH Assessments



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Personnel Training

- Gas Testing
- Permit to Work (PTW)
- Methanol Awareness
- Confined Space Rescue
- BA Training
- Face Fit Testing
- First Aid
- COSHH
- High Pressure Jetting
- Manual Handling





Equipment

- Rescue BA Sets
- BA Mobil Cascade Unit
- Gas Testing Equipment
- Explosive Proof Lighting





Any Questions?



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