

## COGH2S3

# Supervising work in a toxic or non-life supporting atmosphere



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### Overview

This unit is about supervising the work of others in a toxic or non-life supporting atmosphere.

This unit deals with the following:

1. Establishing operational requirements
2. Supervising the selection and checking of safety related equipment and personnel
3. Supervising the rigging up of work and safety related equipment
4. Supervising the work site operation

During this work you must take account of the relevant operational requirements and safe working practices AS THEY APPLY TO YOU.

**Previous Version:** Unit NLS3- National Occupational Standards for H2S and Other Hazardous Gases – October 2001

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### Performance criteria

- You must be able to:*
- P1 issue operational instructions and organise the work of self and others effectively
  - P2 clarify any operational difficulties with relevant personnel
  - P3 accurately confirm the status of relevant Work Permits
  - P4 accurately confirm the availability and status of the required breathing apparatus
  - P5 accurately confirm the availability and status of the required safety equipment - to include ropes and associated work and rescue equipment
  - P6 accurately confirm the availability and status of the required working atmosphere monitoring equipment
  - P7 accurately confirm the confines of the proposed work site
  - P8 ensure that all relevant third parties are aware of the confines of the work site
  - P9 ensure that all relevant third parties are aware of the implications of the work being performed within the designated work site
  - P10 accurately confirm the availability of the relevant third party utilities
  - P11 take appropriate remedial action where errors, omissions and shortages have been identified
  - P12 work safely and in accordance with operational instructions
  - P13 confirm that the selected personnel and equipment conform to the appropriate work instructions and are functional and fit for purpose
  - P14 check the atmospheric contamination readings utilising appropriate measuring devices
  - P15 supervise the establishment of a log accurately recording personnel entry and egress from the work site
  - P16 ensure that appropriate emergency back-up personnel and escape equipment is available, ready for use and on site
  - P17 confirm and identify equipment defects and take appropriate remedial action
  - P18 confirm that work and safety related equipment has been sited for optimum use
  - P19 effectively confirm the work site to be in a condition for work to proceed
  - P20 effectively confirm the safety equipment as functional and suitable for operation
  - P21 effectively confirm the atmospheric monitoring equipment as being functional and appropriate for the planned operation
  - P22 determine the work site atmosphere hazard potential to the workers
  - P23 identify faults and uncertainties in the safety equipment (to include breathing apparatus, designated escape equipment, personal, portable and fixed monitoring equipment) and take appropriate remedial action
  - P24 ensure that the equipment has been handled using appropriate lifting

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- and handling techniques
- P25 confirm that the work site and safety related equipment is being utilised in a manner appropriate to the planned scope of work
- P26 supervise the operation of a log accurately recording personnel entry and egress from the work site
- P27 supervise the ongoing work site atmosphere hazard potential to the workers
- P28 recognise faults and uncertainties in the safety equipment - to include breathing apparatus, designated escape equipment, personal, portable and fixed monitoring equipment - and take appropriate remedial action
- P29 recognise emerging uncertainties in the personnel involved in the work site operation
- P30 confirm that the work site is returned to the appropriate authority following the completion of the work site operation
- P31 accurately record all relevant information
- P32 accurately complete and hand over all documentation appropriate to the completion of the work site operation

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### Knowledge and understanding

*You need to know and understand:*

- K1 how to access and interpret operational instructions
- K2 to whom difficulties should be reported - to include unclear instructions, imprecise details and lack of information
- K3 how to check the availability of third party utilities and consumables
- K4 how to identify errors, omissions and shortages and what remedial action is available to you - to include reporting, recording and rectification
- K5 how to work with the Permit to Work system
- K6 how to perform an appropriate risk assessment of the work site
- K7 how to confirm the availability of third party utilities - to include air, power and light
- K8 the operating principles of atmospheric monitoring and measuring equipment
- K9 the limitations of equipment and the environment in which they are used
- K10 the function and operating principles of atmospheric contamination monitoring equipment
- K11 the importance of correctly calibrated atmospheric monitoring equipment
- K12 how to use breathing apparatus and associated equipment
- K13 how to check the monitoring equipment readings and understand their implications
- K14 how to access and interpret relevance reference charts and graphs
- K15 the effects of the environment on the human body and on the work site structure
- K16 how to identify equipment faults and defects and what remedial action is available to you - to include reporting, recording, replacement, repair and appropriate adjustment
- K17 how to site and assemble equipment - to include fixed and portable atmospheric monitoring equipment, safety related escape and work equipment
- K18 how to check designated escape equipment is fit for the intended purpose
- K19 how to check and make a decision on the changing work site condition - to include the use of appropriate risk assessment(s) and Work Permits.
- K20 hazards that are likely to be encountered and how to deal with them in an appropriate manner
- K21 how to monitor the work site condition and actions to be taken in the event of variance from the operational plan
- K22 how to interpret and maintain records of exposure and hazards that are likely to be encountered and how to deal with them in an appropriate manner

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### Additional Information

#### Scope/range related to performance criteria

- 1 how to select, use and care for PPE to include both sight and hearing protection, gloves, footwear, hard hats, respirators and coveralls
- 2 how to use breathing apparatus
- 3 the strengths and weaknesses of the various types of atmospheric monitoring equipment - to include fixed, portable and personal monitors
- 4 the implications of organisational and statutory requirements
- 5 the hazards associated with working within a toxic or non-life supporting atmosphere
- 6 how to interpret operational requirements - to include policies, procedures, instructions, codes of practice and standards
- 7 how to prepare and interpret appropriate permits to work

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**Suite** H2S & other Hazardous Gases

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