

COGH2S1

Prepare to perform work in a toxic or non-life supporting atmosphere



Overview

This unit is about preparing to perform work in a toxic or non-life supporting atmosphere.

This unit deals with the following:

1. Establishing operational requirements
2. Selecting and checking safety related equipment and personnel
3. Rigging up equipment

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

Previous Version: Unit NLS1 – National Occupational Standards for H2S and Other Hazardous Gases – October 2001

COGH2S1

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Performance criteria

- You must be able to:*
- P1 effectively obtain operational instructions and organise the work of self and others
 - P2 clarify any difficulties with relevant personnel
 - P3 accurately confirm the status of relevant Work Permits
 - P4 accurately identify and confirm the availability and status of the required breathing apparatus
 - P5 accurately identify and 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 establish the confines of the proposed work site
 - P8 accurately identify and confirm the availability of the relevant third party utilities
 - P9 take appropriate remedial action where errors, omissions and shortages have been identified
 - P10 work safely and in accordance with operational instructions
 - P11 identify and select equipment which conforms to the appropriate organisational and operational instructions
 - P12 confirm the equipment is functional and fit for purpose
 - P13 check the atmosphere contamination readings utilising appropriate measuring devices
 - P14 contribute to the operation of a log, accurately recording personnel entry and egress from the work site
 - P15 ensure that appropriate emergency back-up personnel and escape equipment is available, ready for use and on-site
 - P16 accurately identify equipment defects and take appropriate remedial action
 - P17 site the equipment for optimum use
 - P18 effectively confirm the work site to be in a condition for work to proceed, through appropriate drills and/or briefings
 - P19 effectively confirm the safety equipment as functional and suitable for operation
 - P20 effectively confirm the atmospheric monitoring equipment as being functional and appropriate for the planned operation
 - P21 establish the work site atmosphere hazard potential to the workers
 - P22 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
 - P23 handle the equipment using appropriate lifting and handling techniques

COGH2S1

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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 both with and within the Permit to Work system
- K6 how to identify and confirm the availability and integrity of third party utilities - to include air, power and light
- K7 the operating principles of atmosphere monitoring and measuring equipment
- K8 the potential cumulative effects of operations within a toxic or non-life supporting environment
- K9 the limitations of the 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 to understand their implications
- K14 how to access and interpret relevant 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 defects and what remedial action is available to you to include reporting, recording, replacement, repair and appropriate adjustment
- K17 how to site and assemble appropriate safety-related equipment - to include fixed and portable atmospheric monitoring equipment
- K18 how to check that the designated escape equipment is fit for its intended purpose
- K19 how to check and make a decision on the work-site condition
- K20 hazards that are likely to be encountered and how to deal with them in an appropriate manner
- K21 how to identify equipment faults and uncertainties and what remedial action is available to you - to include reporting, recording, repair, replacement and appropriate adjustment

COGH2S1

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Additional Information

Scope/range related to performance criteria

- 1 how to select, use and care for Personal Protective Equipment (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 how to perform an appropriate risk assessment of the work site
- 6 the hazards associated with working within a toxic or non-life supporting atmosphere
- 7 how to interpret operational requirements to include policies, procedures, instructions, codes of practice and standards

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Suite H2S & other Hazardous Gases

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