# Confined space audit Site: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Date conducted:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# 1 Confined space

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| **Point** | **Standard** | **Standard met** | **Comments** |
| 1.1 | Confined spaces on the site have been identified using the correct definition within AS 2865. |  |  |
| 1.2 | Confined spaces that may be introduced to site as a result of changes in plant, or during construction activities are identified as part of the change management process. |  |  |

# 2 Confined space hazards

| **Point** | **Standard** | **Standard met** | **Comments** |
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| 2.1 | For any confined space, the hazards associated with conducting tasks in or on the confined space shall be identified. |  |  |
| 2.2 | No person shall enter a confined space unless–   1. review of the risk assessment has been completed in accordance with Clauses 3.3.1 and 3.3.5; 2. written authority is provided to, or completed by, the person responsible for direct control of the tasks in the confined space; 3. the written authority includes any risk control measures or precautions necessary, including the number of stand-by persons required, for the safe entry and execution of the tasks; 4. they are advised of, understand and comply with the requirements of the written authority; 5. a record of their presence in the confined space is maintained; 6. signs and protective barriers are erected to prevent entry of persons not involved in the tasks; and 7. appropriate and sufficient arrangements have been made for the initiation of emergency response and, where necessary, rescue of persons from the confined space |  |  |
| 2.3 | A safe system of work is implemented to eliminate or minimise falling from height risks when conducting tasks associated with a confined space. |  |  |
| 2.4 | Risk control measures shall require –   1. Provision of a standby person or persons; or 2. Systems of work methods and controls that provide an equal or better safety outcome to that provided by a standby person (see Clause 1.5.20). |  |  |
| 2.5 | Before a person enters a confined space, and where it is technically feasible to do so, the atmosphere of the confined space shall have –   1. a safe oxygen range; 2. airborne contaminants that may cause impairment, loss of consciousness or asphyxiation reduced to below the relevant exposure standards; and 3. a concentration of flammable airborne contaminant below 5% LEL |  |  |
| 2.6 | Where flammable airborne contaminants are present in the atmosphere of a confined space, the following requirements shall apply:   1. Except in case of emergency response, entry shall not be permitted where the concentration of flammable airborne contaminants in the atmosphere is 5% LEL or greater, or where the oxygen concentration of the atmosphere exceeds 23.5%. 2. Where persons have entered or are conducting tasks in a confined space and the concentration of flammable airborne contaminant in the atmosphere of the confined space has been found to be greater than 5% LEL and less than 10% LEL, the persons shall be removed unless continuous monitoring with a suitably calibrated explosive (flammable) atmospheric substance detector is used in the confined space at all times while persons are present. 3. Where the concentration of flammable airborne contaminant in the atmosphere of a confined space has been found to be 10% LEL or greater, no persons shall remain in the confined space. |  |  |
| 2.7 | Where the hierarchy of risk control measures cannot provide a concentration of oxygen in the atmosphere greater than 19.5% or the airborne contaminants that may cause impairment, loss of consciousness or asphyxiation cannot be reduced to below the relevant exposure standards, no persons shall enter the confined space unless they are equipped with supplied-air respiratory protection and where appropriate, personal protective equipment. |  |  |
| 2.8 | Equipment shall be provided as follows:   1. Suitable equipment shall be provided including, where necessary, equipment for – 2. personal protection; 3. emergencies including rescue; 4. first aid; 5. communication; and 6. fire suppression. 7. The equipment shall be appropriate to the tasks to be conducted in the confined space, and maintained in a proper working condition |  |  |
| 2.9 | Prior to a written authority being cancelled, all tasks in the confined space shall cease and all persons shall be removed from the confined space. |  |  |

# 3 Risk management

| **Point** | **Standard** | **Standard met** | **Comments** |
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| 3.1 | A methodology is established for the management of risks associated with confined spaces. |  |  |
| 3.2 | Consultation takes place between the stakeholders, or their representatives, when implementing the risk management systems for the confined spaces in accordance with the relevant provisions of the MSIA. |  |  |
| 3.3 | A risk assessment shall be conducted by a competent person or persons before conducting any tasks associated with the confined space. The assessment shall be documented and take into account at least the following:   1. The hazards of the confined space. 2. The tasks required to be conducted, including the need to enter the confined space. 3. The range of methods by which the tasks can be conducted. 4. The hazards involved and associated risks involved with the actual method selected and equipment proposed to be used. 5. Emergency response procedures. 6. The competence of the persons to conduct the tasks. |  |  |
| 3.4 | The risk assessment shall be reviewed and revised whenever there is evidence to indicate that there is a change in the risk. |  |  |
| 3.5 | When multiple tasks are being conducted in and around the confined space, a safe system of work is implemented to ensure each task is safe to carry out. |  |  |
| 3.6 | If a risk assessment identifies a risk to health or safety arising from the tasks to be conducted in a confined space, the risk shall be eliminated or, if this is not possible, minimized by the implementation of appropriate risk control measures. The risk control measures shall be documented. |  |  |

# 4 Design, manufacture, supply and modification considerations

| **Point** | **Standard** | **Standard met** | **Comments** |
| --- | --- | --- | --- |
| 4.1 | The need to conduct work inside a confined space is minimised. |  |  |
| 4.2 | The risks associated with conducting work in a confined space when required are minimised through design and manufacture. |  |  |
| 4.3 | Openings for entry to and exit from a confined space are of adequate size to permit rescue of all persons who may enter the confined space. |  |  |
| 4.4 | Any modification made to a confined space does not detrimentally affect the safe means of entry to, exit from, or the tasks being carried out in the confined space. |  |  |
| 4.5 | Any confined spaces that are reclassified as a non-confined space have undergone sufficient changes in structure or usage to eliminate (without the need for risk control measures) all possible sources of inherent hazards that define a confined space. |  |  |

# 5 Training and competency

| **Point** | **Standard** | **Standard met** | **Comments** |
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| 5.1 | All persons with tasks associated with a confined space have been trained and assessed as competent to conduct those associated tasks in regards to a confined space |  |  |
| 5.2 | Persons are reassessed at appropriate intervals to maintain their competency to conduct tasks associated with confined spaces. |  |  |
| 5.3 | Records are maintained of confined space training and competencies achieved. |  |  |

# 6 Isolation and atmospheric requirements

| **Point** | **Standard** | **Standard met** | **Comments** |
| --- | --- | --- | --- |
| 6.1 | Prior to any person entering a confined space, all potentially hazardous services, (including all process services) normally connected to that space shall, where it is possible to do so, be isolated in order to prevent –   1. The introduction of any materials, contaminants, agents or conditions harmful to persons occupying the confined space; and 2. The activation or energizing in any way of equipment or services that could pose a risk to the health or safety of persons within the confined space. |  |  |
| 6.2 | Where necessary, the confined space shall be cleared of contaminants by use of a suitable purging agent. The purging agent or any gas used for ventilation purposes shall not be pure oxygen or a gas mixtures with an oxygen concentration greater than 21%. |  |  |
| 6.3 | Ventilation of a confined space should be natural, forced or by mechanical means to establish and maintain a safe atmosphere. This ventilation should be continued throughout the period of occupancy. |  |  |
| 6.4 | Atmospheric testing or monitoring shall be conducted in a manner consistent with the hazards identified in the risk assessment of the confined space. No person shall enter a confined space to conduct atmospheric testing or monitoring without a written authority. |  |  |

# 7 Emergency response equipment

| **Point** | **Standard** | **Standard met** | **Comments** |
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| 7.1 | The employer has adequate emergency response equipment and resources to meet the requirements of the confined space work being carried out onsite, as per the emergency response plan. |  |  |
| 7.2 | Appropriate emergency response and first aid procedures and provisions shall be identified, planned, established and rehearsed. |  |  |
| 7.3 | Those persons involved in an emergency response shall be made aware of the conditions and the number of persons in the confined space prior to any entry. |  |  |

# 8 Accident / incident investigation

| **Point** | **Standard** | **Standard met** | **Comments** |
| --- | --- | --- | --- |
| 8.1 | The employer investigates incidents associated with confined spaces. |  |  |
| 8.2 | All actions arising from investigations of confined space entry incidents, have been implemented. |  |  |
| 8.3 | Confined space incident reports, findings and controls are communicated to all relevant personnel including contactors. |  |  |