A confined space can be any space of an enclosed nature where there is a risk of death or serious injury from hazardous substances or dangerous conditions (e.g. lack of oxygen).

Examples of this could be as follows

- Tank's / manholes
- Pipelines
- Boreholes
- Sumps
- Enclosed equipment

- Sewers
- Chambers
- Reservoirs
- Tunnels
- Wells

REMEMBER entry into a confined space **MUST** only be as a last resort. Look at alternative ways of doing the task; for example: inspection, sampling and cleaning operations can often be undertaken from outside using appropriate equipment and tools. If in doubt refer to *Confined Space Hierarchy of Control*.

ALWAYS

Plan / discuss emergency escape routes; safety documents, equipment and personal protective equipment to be available or used, roles of responsible people during an emergency' and where necessary:

- · Obtain a Permit to Enter.
- Test and trial the emergency procedure with everyone so that they know what to do.
- Any gas alarms or incidents must be reported to the Incident Line and Line Manager as soon as reasonably practicable following the event.

NEVER enter a confined space or enclosed area if you are:

- Not trained and competent.
- Lone working.
- Without the documentation being present, correct and fully completed.
- Without an approved gas monitor and planned escape routes.
- · Using a mobile phone or other device.
- Smoking.



NEVER ENTER A CONFINED SPACE IF YOU ARE NOT TRAINED, COMPETENT AND AUTHORISED



Confined Space Hierarchy of Control



BEDNCE

space, you MUST have a safe system of working nside the space

if you cannot eliminat

entry to the confined

Electrical Isolation of equipment is Mechanical and essential. **ISOLATE**

operate, or be operated, inadvertently Equipment that could otherwise must be isolated.

Equipment that could otherwise operate, or be operated, inadvertently must be isolated.

Ensure all equipment is locked off using pipe-work.

any kind left in the system that could Check there is no stored energy of

ensure isolation is effective.

reactivate the system.

Confined Space Working

If gas, fume or vapour could enter the confined space, you need to isolate the

relevant padlocks, securing keys as per the safe system of work.

In all cases, a check must be made to

Have the works been classified as National Classification NC1, NC2, NC3 or NC4?

Are all persons involved in the

All equipment to be used ATEX rated Is a permit to work required / beer operation trained to the relevant confined space classification? and calibrated?

Have emergency procedures / rescue plans been put into place? attached to a winch line for NC3).

completed? (NC4 only unless not

Have communication methods been discussed?

Continually review all operations as works progresses.

Is the intended work really necessary?

as low as is reasonably practicable?

Complete the confined space risk

controls that have been put into assessment, detailing relevant

place, lowering the risk?

Can you reduce the risk of harm to

Can you modify the confined space so entry is not necessary?

Can the work be done from the

Blockages cleared by use of remotely operated floating flail devices or air purges? outside?

up the confined space as much as

Have you considered? possible?

 Cleaning. Pumping.

Can you remove covers to open

Use appropriate tools and equipment to enable cleaning / inspection / Remote cameras for internal sampling from the outside?

Can forced air ventilation be used?

Hazards arising directly from the

works to be undertaken?

Flushing the contents out?

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Low Risk Confined Space

A low risk confined space exists where there is easy entry/ exit and natural ventilation.

NC1 Classification

Low risk shallow entry with adequate natural or mechanical ventilation, where access is simple and unobstructed and there is no likely risk of flooding. e.g. meter pits, valve chambers, booster-pumping stations, PRV chambers.

No breathing apparatus required for low risk.





Medium Risk Confined Space

A medium risk confined space exists where there are access issues; a realistic expectation of encountering a specific risk; possible introduction of specified risks during the work activity.

NC2 Classification

Vertical direct unobstructed access with continuous attachment

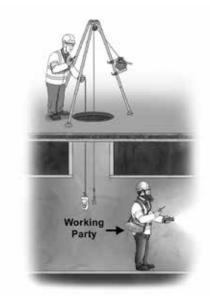
to a person riding hoist or similar mechanical rescue device.

Escape Set (Self Rescue) breathing apparatus required to be taken into medium risk.

NC3 Classification

When it is not possible to have persons permanently attached to a safety line.

Usually it will be a team entry which moves away from the entry point e.g. Man entry sewers, utility service subway tunnels, aqueducts and complex wet walls. Working without an attached rescue line and includes working away from the point of entry.



Escape Set (Self Rescue) breathing apparatus required to be taken into medium risk.

High Risk Confined Space

A high risk confined space exists when there is a specified hazard that cannot be controlled or eliminated.

NC4 Classification

Non standard entries involving complex operations which introduce additional risks and require specific controls and rescue arrangements, e.g. mechanical hazards, physical complexity of system introduced hazards, enhanced specific intrinsic hazards.

Full breathing apparatus (working) required to be worn at all times in high risk.

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