

**L.O.1-CONFINED SPACES - HAZARD IDENTIFICATION- QUESTIONS:**

a. What is the most common hazard in the enclosed spaces of a steel ships void compartments?

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b. Ships holds, vats or silos that are used to store vegetables, grains or other organic materials may be contaminated by:

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c. List four possible operational contaminants of a vessels engine room.

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d. Other than suffocation, what is a significant risk within a enclosed engine room.

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e. Describe the hazards you would anticipate in the store rooms and enclosed spaces of your vessel immediately after return to service after refit or restoration.

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f. After a busy day of smoky cars & lorries loading on the vehicle deck, you have a headache as you descend to the engine room to shut down. What is a possible risk in your action?

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g. Name the high risk compartments of your vessel and their possible hazards.

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**L.O.1- HAZARD IDENTIFICATION- ANSWERS:**

- a. Poor atmospheric quality resulting from the rusting process.
- b. Build up of toxic gases by micro-organisms and in particular hydrogen sulphide.
- c. Build up of poisonous gases due to contamination by operational equipment (exhaust, oil fumes, methane) or emergencies (chlorine from swamped batteries, fire extinguishers).
- d. Build up of explosive gases (fuel oil vapours, hydrogen and LPG) and the dangers of naked lights, sparking and static.
- e. Residual toxic fumes from paints and solvents after restoration works.
- f. Contamination by external operation such as vehicle/portable machinery exhausts or spillage or the release from fire extinguishers.
- g. Enclosed spaces, voids, storerooms, coffer dams , etc.

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