



# InterManager

## **Enclosed Space Deaths**

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**[www.intermanager.org](http://www.intermanager.org)**



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# Context

**What is enclosed space?**

**Code of Safe Working Practices**

**Chapter 17**



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# ENTERING ENCLOSED OR CONFINED SPACES

## 17.1 Introduction

**17.1.1** Based on the findings of the risk assessment, appropriate control measures should be put into place to protect those who may be affected. This Chapter highlights suggested control measures for entry into enclosed or confined spaces.

**17.1.2** **The atmosphere of any enclosed or confined space is potentially dangerous.** The space may be deficient in oxygen and/or contain flammable or toxic fumes, gases or vapours. Where possible, alternative means of working which avoid entering the space should be found.

**17.1.3** Should there be any unexpected reduction in or loss of the means of ventilation of those spaces that are usually continuously or adequately ventilated then such spaces should also be dealt with as dangerous spaces.

**17.1.4** When it is suspected that there could be a deficiency of oxygen in any space, or that toxic gases, vapours or fumes could be present, then such a space should be considered to be a dangerous space.

## 17.2 Precautions on Entering Dangerous Enclosed or Confined Spaces

**17.2.1** The following precautions should be taken as appropriate before a potentially dangerous space is entered so as to make the space safe for entry without breathing apparatus and to ensure it remains safe whilst persons are within the space.

1. A competent person should make an assessment of the space and a responsible officer to take charge of the operation should be appointed

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# Is there a problem?

## There are very fragmented statistics

MAIIF -Marine Accident Investigations International Forum Stats 1998-2009: 93 Fatalities 96 Injuries

MAIB – Marine Accident Investigation Board – May 2009 – 12 accidents 10 deaths and 7 injuries

International Bulk Terminal Association: 1999 -2018 – 106 fatalities – 70 Seafarers and 36 shore workers

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# **IMO and P and I clubs**

**THERE ARE NO STATISTICS**

**There are no trends available**



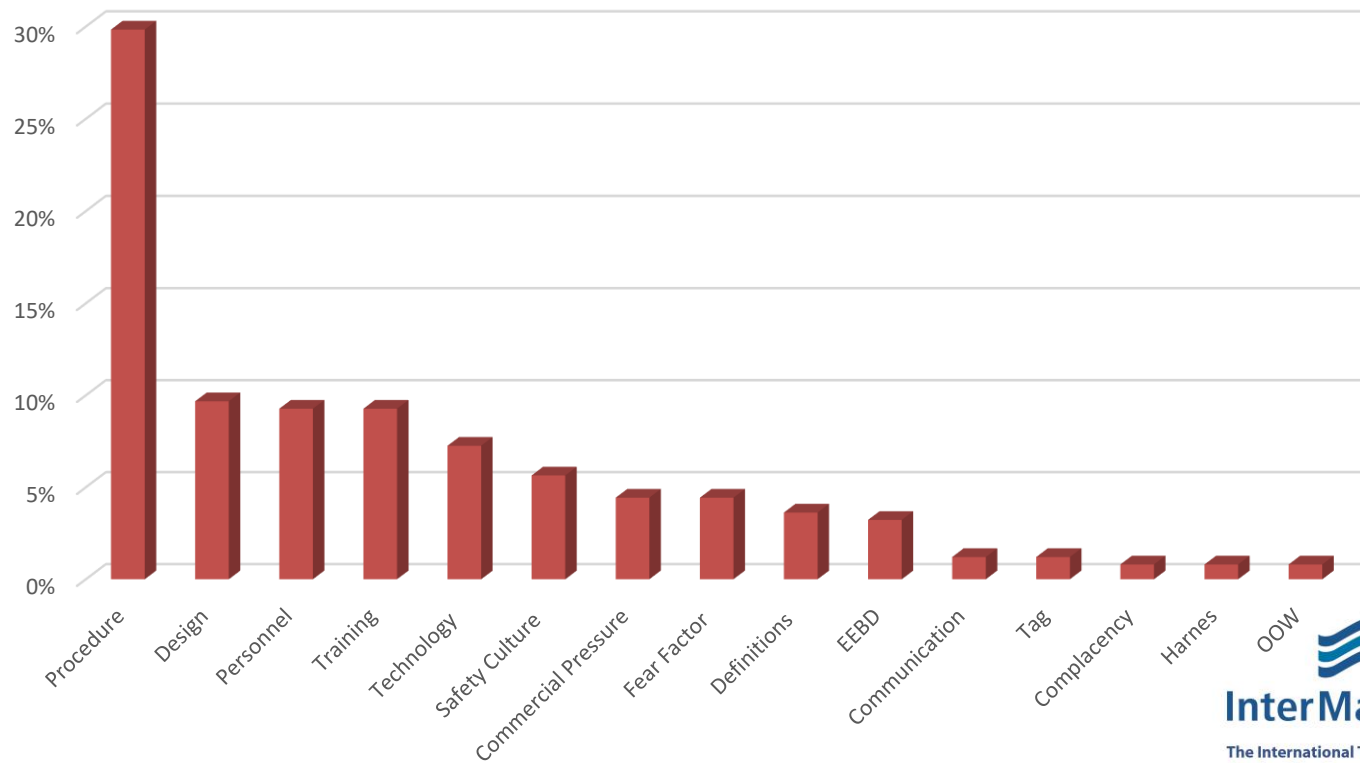
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# What the end user – Seafarers has to say

Enclose Space Deaths survey



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# **Stake holders who don't see themselves as part of the problem:**

**Class**

**Ship yard (Designer)**

**Flag**

**Owner**

**Cargo Owner**

**Port**

**Ship Manager**

**Crew Manager**

**Senior Management**

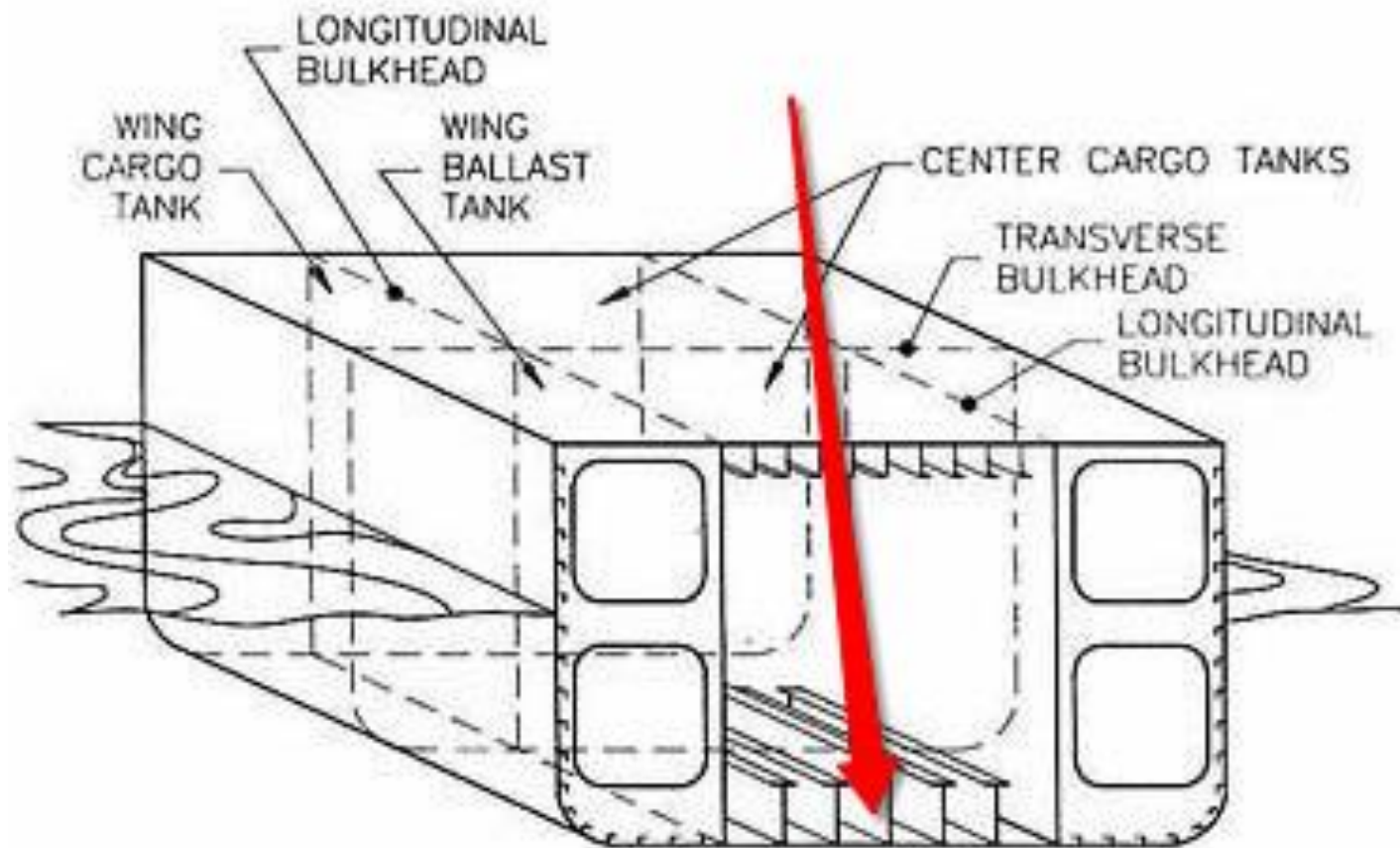


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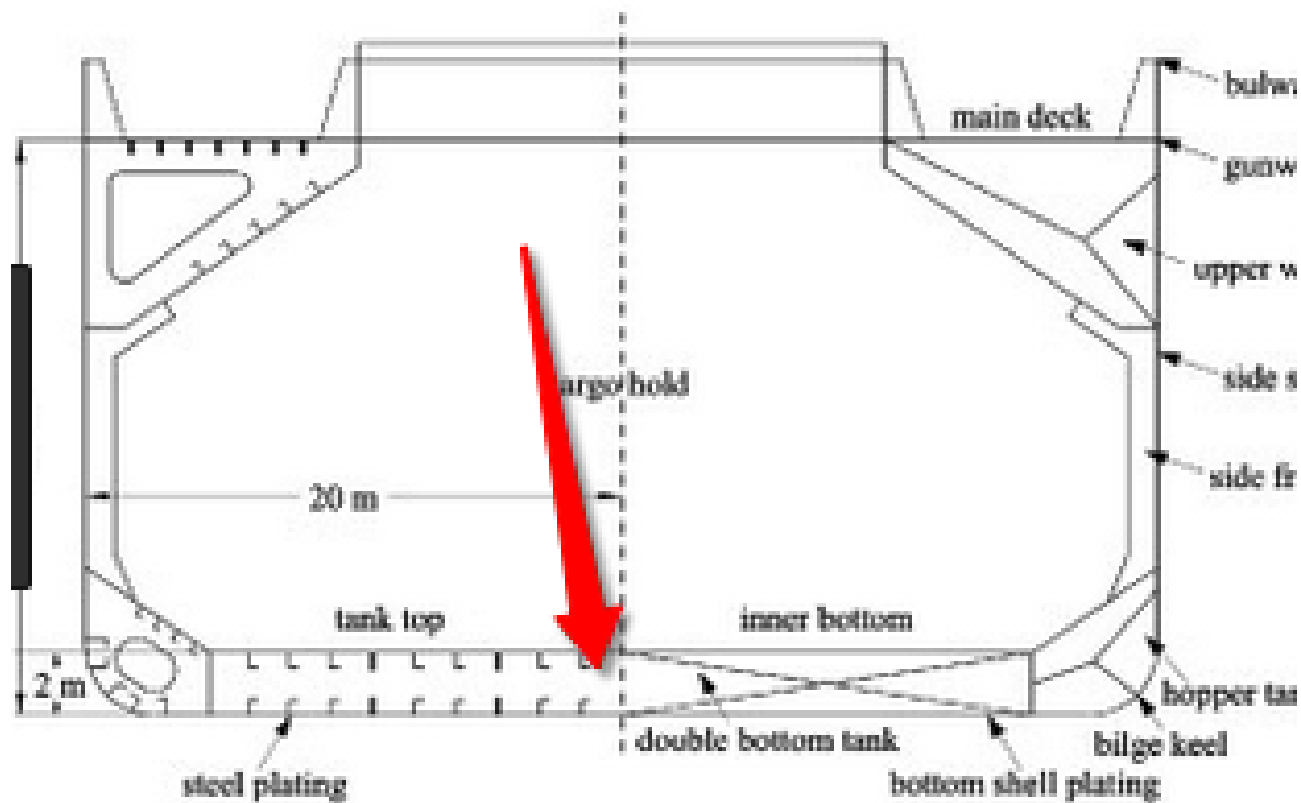




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**£170.00**

MSA Altair

Ribble Enviro



**£460.00**

BW GasAlert Max XT II

Ribble Enviro



**£615.00**

MSA Altair 4X

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Riken Keiki GX-2009

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BW GasAlert Quattro

Ribble Enviro



**£487.00**

RAE Systems MicroRAE 4 Gas

Ribble Enviro



**£2,017.44**

Crowcon Gas Pro IR with PID Personal

Tester.co.uk



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**Gas detection equipment in use**



**Helmet mounted light**



**Hands-free communications equipment can be a**



**Rescue safety harness**



**Tripod winch system**



**Oxygen resuscitator stowed in carrying pack**



**Internal access between compartments in a tank – extrication is impossible without the right equipment**

[https://www.he-alert.org/filemanager/root/site\\_assets/standalone\\_article\\_pdfs\\_0905-/He01145.pdf](https://www.he-alert.org/filemanager/root/site_assets/standalone_article_pdfs_0905-/He01145.pdf)



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# Thank You



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