



## Purpose:

The e-learning module is designed for theoretical training of seafarers in accordance with STCW Convention in the part concerning enclosed space entry.

## What is an e-learning module?

E-learning module is the electronic textbook on one or more sections. Theoretical materials can be accompanied by drawings, diagrams, photos, animations and videos. There is a test for assessment of knowledge gained at the end of each section.

## Contents:

- Introduction
- Definitions
- Safety Management for Entry into Enclosed Spaces
- Training, Instruction and Information
- Assessment of Risk
- Authorization of Entry
- General Precautions
- Testing the Atmosphere
- Precautions During Entry
- Procedures On Completion
- Additional Precautions for Entry into a Space Where the Atmosphere is Known or Suspected to be Unsafe
- Hazards Related to Specific Types of Ships or Cargo
- Breathing Apparatus and Resuscitation Equipment
- Maintenance of Equipment for Entry into Dangerous Spaces
- Entry to Enclosures Containing High Voltage Equipment/Installations
- Assisting a Casualty
- Conclusion

## Target groups

Deck - Management  
Deck - Operational  
Deck - Support

Engine - Management  
Engine - Operational  
Engine - Support

## Ship types

Generic





### Regulations

- Chapter III, Regulation 19 SOLAS
- Section STCW V/1-1, A-VI/1-4, B-V/1, B-V/b, B-V/c
- Resolution IMO A.1050(27) “Revised recommendations for entering enclosed spaces aboard ships”



**ENCLOSED SPACE ENTRY**  
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Section 2: Definitions

### Section 2. Definitions

#### 2.1 Definitions


Enclosed space means a space which has any of the following characteristics:

1. limited openings for entry and exit;
2. inadequate ventilation; and
3. is not designed for continuous worker occupancy;

and includes, but is not limited to, cargo spaces, double bottoms, fuel tanks, ballast tanks, cargo pump-rooms, cargo compressor rooms, cofferdams, chain lockers, void spaces, duct keels, inter-barrier spaces, boilers, engine crankcases, engine scavenge air receivers, sewage tanks, and adjacent connected spaces.

This list is not exhaustive and a list should be produced on a ship-by-ship basis to identify enclosed spaces.

- COSWP, 6.5. Entry into dangerous spaces (sec. 6.5.1)
- A Master's Guide to Enclosed space entry, 01 Introduction



Resolution A.1050(27), 1. INTRODUCTION

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Section 7: General Precautions

### 7.2 General Precautions

A door or hatch cover which is opened to provide natural ventilation of an enclosed space may, wrongly, be taken to be an indication of a safe atmosphere and therefore, an attendant may be stationed at the entrance or the use of a mechanical barrier, such as a rope or chain positioned across the opening with an attached warning sign, could prevent such accidental entry.



Resolution A.1050(27), (sec. 6.2)

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Section 7: General Precautions

### 7.4 General Precautions

Only trained personnel should be assigned the duties of entering, functioning as attendants or functioning as members of rescue teams.

Ships' crews with rescue and first aid duties should be drilled periodically in rescue and first aid procedures. Training should include as a minimum:

1. identification of the hazards likely to be faced during entry into enclosed spaces;
2. recognition of the signs of adverse health effects caused by exposure to hazards during entry; and
3. knowledge of personal protective equipment required for entry.



- Resolution MSC.350(92)
- Resolution A.1050(27), (sec. 6.4)

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Section 11: Additional Precautions For Entry into A Space Where The Atmosphere is Known Or Suspected To Be Unsafe

### 11.2 Additional Precautions For Entry into A Space Where The Atmosphere is Known Or Suspected To Be Unsafe

Suitable breathing apparatus, e.g. of the air-line or self-contained type, should always be worn, and only personnel trained in its use should be allowed to enter the space.

Air-purifying respirators should not be used as they do not provide a supply of clean air from a source independent of the atmosphere within the space.



- A Master's Guide to Enclosed space entry, 10. Entry and Rescue Equipment (p.35-37)
- Resolution A.1050(27) (sec. 9.2)

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Section 13: Breathing Apparatus And Resuscitation Equipment

### 13.2 Breathing Apparatus And Resuscitation Equipment

17.13.2 As described in 17.11.2, breathing apparatus for those working in a dangerous space will usually comprise a continuous supply from outside the space and a self-contained supply to enable the wearer to escape to a safe atmosphere in the event of difficulty with, or failure of, the continuous supply.

It should not be necessary to remove any part of the equipment or any protective clothing to change over to the self-contained supply.



COSWP 17.13 Breathing Apparatus and Resuscitation Equipment

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Test tasks

COMMENT

2.2 Res.A.1050(27)

Adjacent connected space means a normally unventilated space which is not used for cargo but which may share the same atmospheric characteristics with the enclosed space such as, but not limited to, a cargo space accessway.

Question text:

Which of the following spaces are included in 'Adjacent connected space' termin?

Choose the correct answer

- Ventilated space which is used for cargo.
- Ventilated space which is not used for cargo.
- Unventilated space which is not used for cargo.
- Unventilated space which is used for cargo.

Attempt: 1

Miss

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