



### **Purpose:**

The e-learning module is designed for theoretical training of seafarer in accordance with Chapter V of the STCW Convention in the part concerning of passengers safety, cargo safety and hull integrity.

### **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:**

- Loading and embarkation procedures
- Carriage of dangerous goods
- Securing cargoes
- Stability, trim and stress calculations
- Opening, closing and securing hull openings
- Ro-ro deck atmosphere

### **Target groups**

Deck - Management  
Deck - Operational  
Deck - Support

Engine - Management  
Engine - Operational  
Engine - Support

### **Ship types**

Generic

### **Regulations**

*p.5 Section A-V/2 STCW Code  
IMO Model course 1.29  
"PROFICIENCY IN CRISIS  
MANAGEMENT AND HUMAN  
BEHAVIOUR TRAINING  
INCLUDING PASSENGER  
SAFETY, CARGO SAFETY AND  
HULL INTEGRITY TRAINING"*






Section 1. Introduction

Competent person

"Competent person" means a person possessing the knowledge or experience necessary for the performance of their duties.

- Cargo Transport Unit (CTU)
- Road vehicle
- Maximum Securing Load (MSL)
- Roll-on/Roll-off (ro-ro) Ship
- Ro-ro passenger ship
- Semi-trailer
- Trained person
- Vehicle



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Section 2. Loading and embarkation procedures


Planning for safe loading and discharge

Effective planning is one of the key elements of safe loading/discharge operations. Most accidents and near misses which occur could be avoided.

Ro-Ro operations should be planned and executed in a way that minimises risks to those involved in the operation. While the handling of various types of cargo is to a great extent routine, unique or unusual situations with additional or specific hazards may be encountered. In these situations, an additional or more detailed risk assessment will be required.

Planning of these operations should include coordinating the interface between vehicle movements and any personnel required to be on freight decks such as lashers and ship's crew.

A cargo stowage plan should include a record of the positioning of any dangerous cargo.



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Section 2. Loading and embarkation procedures

Personnel working on vehicle decks shall wear suitable Personal Protective Equipment (PPE), including high visibility garments.

Crew members and shore workers should exercise great care when supervising the driving, marshalling, stowing and securing of vehicles to ensure that no person is put at risk.


No attempt should be made to secure a vehicle until it is parked, the brakes, where applicable, have been applied and the engine has been switched off.

Where personnel are working in shadow areas, hand lamps and torches should be available for use.

Personnel engaged in the securing of vehicles should take care to avoid injury from protrusions on the underside of the vehicles.

Personnel should release lashings with care to reduce the risk of injury when tension is released.


*Dangerous* Inoperative vehicle, engine during a voyage should



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Section 4. Securing cargoes

- Special consideration should be given to the securing of vehicles stowed in positions where they may be exposed to large forces. The most severe forces can be expected in the furthest forward, the furthest aft and the highest stowage positions on each side of the ship. Measures should be taken to reduce the risk of longitudinal movement of vehicles in these areas resulting in contact with bow or stern doors.
- During the voyage, lashings should be inspected at intervals appropriate to the length of voyage and weather conditions expected and adjusted where necessary to ensure that vehicles remain safely secured.
- Without the master's express permission, lashings should not be released for unloading before the ship is secured at the berth.
- When wheel chocks are used to restrain a semi-trailer,




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Section 6. Opening, closing and securing hull openings

Sealing surveys


- Securing device
- Supporting device
- Locking device

Locking device - a device that locks a securing device in the closed position.



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Test tasks



Question text:

What should the driver do when he sees the signal shown in the picture?

Choose the correct answer

- Move forward.
- Stop.
- Move backwards.

Attempt: 1

COMMENT

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