



## Purpose:

The e-learning module is designed for theoretical training of ratings as able seafarer deck in accordance with Chapter II of the STCW Convention in the part concerning of anchoring operations.

The ELM is included in the "*Able seaman*" library.

## 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:

- The choice of anchorage
- Anchorage calculation
- Watchkeeping Officer duties when approaching an anchorage
- Preparing for anchorage and dropping the anchor
- Methods of anchoring the vessel to one and two anchors
- Buoy mooring
- Watchkeeping at anchor
- Weighing anchor and buoy unmooring

## Target groups

Deck - Support

## Ship types

Generic



## Regulations

### Table A-II/5 STCW Code

Competence:	Contribute to berthing, anchoring and other mooring operations
Knowledge, understanding and proficiency:	Working knowledge of the mooring system and related procedures <sup>6</sup> including: .4 the procedures and order of events for the use of anchors in various operations
Competence:	Contribute to the safe operation of deck equipment and machinery
Knowledge, understanding and proficiency:	Knowledge of deck equipment including: .6 ability to operate anchoring equipment under various conditions such as anchoring, weighing anchor, securing for sea, and in emergencies




ANCHORING OPERATION  
Version: 01/2023

Section 4: Preparing for anchorage and dropping the anchor

### Section 4. Preparing for anchorage and dropping the anchor

**Preparing for anchorage**

Preparing for anchorage is carried out under the guidance of the Deck Officer. The Boatswain is at the windlass control station.



Slide: 42/149

Back Next

ANCHORING OPERATION  
Version: 01/2023


Section 8: Weighing anchor and buoy unmooring

### Heaving up the anchor

Preparing to heave up the anchor is performed in the following order:

- reliability of the fastening of the band brake is checked;
- the windlass (capstan) operation is checked when it is running at idle;
- the cable litters are connected to the windlass mechanism;
- additional stoppers are let go;
- water to wash the anchor chain is opened and the windlass readiness for operation is reported to the bridge.

In order not to overload the windlass, the heaving up of the



Slide: 122/149


Back Next

ANCHORING OPERATION  
Version: 01/2023

Section 4: Preparing for anchorage and dropping the anchor

### Anchor dropping

By command from the bridge, the Boatswain releases the band brake. The ship's slow speed astern allows the anchor to bite the ground faster and prevents the anchor chain from piling up on the anchor.



Slide: 48/149

Back Next

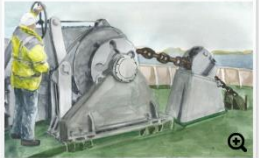
ANCHORING OPERATION  
Version: 01/2023

Section 8: Weighing anchor and buoy unmooring

### Preparatory operations

After the general preparation of the vessel, the crew members (usually the Third Mate and Boatswain) scheduled for anchoring are called to the forecastle, prepare the windlass for work and check its operation at idle.

Upon completion of the preparation, the Chief Mate and the Chief Engineer report to the master the readiness of the vessel for weighing anchor.



Slide: 122/149

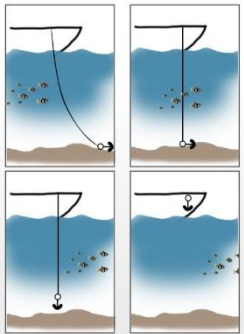
Back Next

ANCHORING OPERATION  
Version: 01/2023

Section 8: Weighing anchor and buoy unmooring

As the chain is heaved, the Deck officer reports to the bridge a number of lengths 'on the windlass' or 'in the water', the chain tension and the direction of the chain relative to the center line of the vessel. At the same time, the following signals are given using the bell:

- a number of lengths remaining in the water is given by separate strokes;
- cable apeak – frequent strokes;
- anchor up (is released from the bottom) – one stroke;
- anchor up (clear/not clear) – two strokes;
- anchor in the hawse (in place) – three strokes.




Slide: 125/149

Back Next

ANCHORING OPERATION  
Version: 01/2023

Test tasks



Test of operation:

Indicate the signal given by the bell from the forecastle when the anchor is apeak?

Choose the correct answer:

- Number of frequent bell strokes.
- Three strokes.
- Two strokes.
- One stroke.

Attempts: 1

Miss

COMMENT

Slide: 129/149

Back Next