



TEACHER'S MANUAL

Course:

Occupational Safety Onboard

Part III - Physical risks

TEACHER'S MANUAL

The purpose of the teacher's manual is to assist teachers in organizing and introducing training courses. It is not the intention of teacher's manual to provide teachers with a rigid teaching package which they are expected to "follow blindly", because national educational systems, groups size and the cultural backgrounds of trainees in maritime subjects vary considerably from country to country. The teacher can choose suitable parts for target group and can even make changes that are needed to achieve the learning outcomes.

The teacher's manual has been designed to give ideas how to you use material developed in the OnBoard Med –project. Teacher's manuals content is: objectives, content, target group and student's amount, implementation and learning methods, assessment, learning process (summary) and tips for the teacher.

Occupational Safety On Board – Physical Risks, 1 ECTS = 27 hours

OBJECTIVES

Occupational safety issues are important to all members of the crew. Further, if there is a nurse on board, occupational health care is an important part of his/her work. Working environment on board is more demanding than on land. First, the crew is often working long hours in confined space, where the persons are exposed to variety of occupational risks including physical risks), chemical risks, accidents (equipment, slips/trips and falls etc.)

CONTENT

The course is related to management of occupational risks on board. The learning objectives are: The participants should learn what occupational safety is; what are the occupational risks on board; the factors and situations that expose persons to accidents; and the ways of preventing them. Topics of the course are: Occupational safety; occupational risks on board; noise, vibration; radiation; preventive risk assessment on board; early observation (alcohol) and mini-interventions; nursing the crew on board and wellbeing of the crew on board.

TARGET GROUP AND STUDENT AMOUNT:

Mariners, Ship nurses and Service Personnel on board.

IMPLEMENTATION

E-learning:

- Reading articles – Online discussion
- Learning material
- Risk assessment pictures / Text

ASSESSMENT

- Questions – Pass/Fail
- Discussions in Optima done
- Document sent before deadline

LEARNING METHODS

eLearning is learning utilizing electronic technologies to access educational material outside a traditional classroom. eLearning can be f. ex. online videos, lectures, discussions, teacher consultation, e-testing.

Exercise is an activity carried out for a specific purpose in online or face to face and can be individual or group exercise. F. ex. pre tasks, classroom exercise, model answer questions.

Lecture: an educational and theoretical talk to the students which should be interactive. When the instructor incorporates engagement triggers and breaks the lecture at least once per class to have students participate in an activity that lets them work. The engagement triggers capture and maintain student attention and allow students to apply what they have learned or give them a context for upcoming lecture material. Lecture can be online, video lecture or face to face.

Skill lab provide students with an opportunity to learn and develop the skills essential to nursing / maritime practice within a supportive and safe environment.

Simulation is a form of experiential learning. Where teacher sets problems, events or scenario that can be used for training students, how to behave in authentic situation within a supportive and safe environment. It includes introduction, simulation and debriefing.

Workshop is a period of practical work on a particular subject in which a small group of people share their [knowledge](#) or experience. Workshop can also be like learning café where you develop new ideas or approaches to specific subject.

SUMMARY

CONTENT	TIME	LEARNING METHODS and MATERIAL	ASSESSMENT
Introduction <ul style="list-style-type: none"> - International Organizations and Conventions - Identifying risks - Risk assessment - Emergency situations - Escape routes 	4-6 H	Online lecture (pp) Articles	Pass/Fail

- Accidents			
Online discussion - Investigation fatal accident	1-2 H	Reading the article Online discussion in Optima	Have participated in the online discussion
Physical Risks - Noise - Vibrations - Motion sickness - Asbestos - Slips and Falls - Ladders - Stairs - Doors - Mooring - Heat - Cold - Chemical risks - Engine room - Hot work - Enclosed spaces - Working aloft	7-10H	Online lecture (pp, articles, film)	Pass/Fail
Working permit	1 H	Online lecture	Pass/Fail
Personal protective equipment (PPE))	1 H	Online lecture	Pass/Fail
Familiarization Training	1 H	Online lecture	Pass/Fail
Communication - Examples	1-3 H	Online lecture Answer questions	
Final test	2-4H		Pass/Fail

TIPS FOR TEACHER

Lectures (persentations)

Physical_Risks_onboard_.pdf

Pre-Work

PRE_WORK_-_Occupational_Risks_and_Challenges_of_Seafaring_-_Oldenburg,_Baur_and_Schlaich.pdf

Pre-task Safety Risks Onboard

Occupational Safety - Safety Risks On Board

Take a look at the films below and write what the risks in these different operations on board are. What should be taken in account and what kind of personal protective equipment is needed?



Mooring

Ditt svar

Mooring Incidents



Pilot Boarding

Ditt svar

Pre-work

- Start course with the pre-work
 - Read the article and make notes in your personal diary – Group discussion later (online or face to face).
 - Do the task. Take a look at the films and write what the risks in these different operations on board are. What should be taken in account and what kind of personal protective equipment is needed?
- Read the presentations in Optima
- The student can choose the order in which he/she read/watch/do the material.
- The student has to read and watch all material in the online educational platform. The teacher can check that everything is done.
- The course ends with the online final test.

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