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# Norwegian Oil and Gas training curriculum

## MOB boat refresher course

Version no: 2

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## FOREWORD

This training curriculum has been compiled for course providers approved by Norwegian Oil and Gas to provide the refresher course for large and small MOB boats.

The training is intended to provide competence in operating a MOB boat.

In this context, competence means *the ability to perform tasks and master complex challenges*.

The contact for this training curriculum in Norwegian Oil and Gas is the manager, expertise development.

Norwegian Oil and Gas training curricula are owned by Norwegian Oil and Gas.

See [Norwegian Oil and Gas 002 Recommended guidelines for safety and emergency preparedness training](#) and requirements for emergency response training.

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## 1 INTRODUCTION

### 1.1 Purpose

This training curriculum describes requirements for the content and execution of the MOB boat refresher course.

The training is designed to provide competence on:

- technical aspects of a MOB boat
- manoeuvring
- navigation
- communication
- search and rescue
- night operation

### 1.2 Learning outcomes

After completing the training, the participant must be able to:

- launch, hook on, and operate boat and equipment in a satisfactory manner
- utilise the commonest search methods
- recover people from the sea and function as crew on a MOB boat

### 1.3 Target group

The target group for the training is personnel functioning as crew on a MOB boat.

Night operation is a separate module taken only by personnel who require this competence.

### 1.4 Refresher frequency

The training must be repeated every 24 months by personnel functioning as crew on a MOB boat.

## 2 CONTENT

### 2.1 Parameters for conducting the course

Teaching at the course centres must reflect a good safety culture.

Practical exercises: one instructor per three course participants in MOB boat.

#### For small MOB boat:

Duration of the course is one day.

A minimum of six hours of practical exercises.

#### For large MOB boat:

Duration of the course is two days.

A minimum of 12 hours of practical exercises.

#### Night operation:

The night operation module takes four hours.

- One course day is eight hours with a minimum of six hours of effective training
- One hour is 60 minutes
- The night operation module must involve a minimum of three hours of practical exercises

During practical exercises, the challenges and degree of difficulty must be increased in line with the rising level of mastery.

During practical exercises, the instructor will observe the participants and give immediate feedback, and time must be allotted for feedback and guidance after the exercise is over.

### 2.2 Teaching materials

Teaching materials used during the course must be tailored to the competence objectives specified in this training curriculum.

### 2.3 Prior knowledge

Basic MOB boat course or high-speed MOB boat pursuant to table A-VI/2-2 of the Standards of Training, Certification and Watchkeeping for Seafarers (STCW) convention.

## 2.4 Facilities and equipment

The training can be conducted through classroom teaching, e-learning, simulator use and use of other appropriate facilities and equipment.

## 2.5 Training curriculum

Participants must be given an introduction before the course starts which reviews the purpose of the course, assessments, the timetable and safety measures.

See the training curriculum set out in table 1 below.

*Table 1: Training curriculum*

Topic	<b>1.0 MOB-BOAT - TECHNICAL</b>			
Competence objectives After completing the training, the participant will be able to:	Specification of competence objectives	Method	Learning environment	References
1.1 Prepare the MOB boat for use and check it out	In accordance with specific checklists, the participant must be able to carry out; <ul style="list-style-type: none"> <li>• pre-use checks</li> <li>• after-use checks</li> </ul>	Practical exercises	MOB boat	Checklists

Topic	2.0 MANOEUVRING				
Competence objectives After completing the training, the participant will be able to:	Specification of competence objectives	Method	Learning environment	References	
2.1 Manoeuvre MOB boat up to vessel, facility or other hoisting point without exposing personnel or materials to danger	The participant must be able to; <ul style="list-style-type: none"> <li>• manoeuvre with fixed rpm</li> <li>• carry out hoisting</li> <li>• hold the boat in position for at least 20 seconds with the water jet connected</li> <li>• carry out emergency manoeuvring</li> <li>• use the bowline when hoisting to/lowering from vessel</li> </ul>	Practical exercises	MOB boat		
2.2 Manoeuvre MOB boat up to person in the sea	The participant must be able to; <ul style="list-style-type: none"> <li>• carry out a safety stop</li> <li>• use the correct rpm in relation to weather and conditions</li> <li>• position the boat in relation to person and weather</li> <li>• manoeuvre without threat to the MOB boat crew or the person in the sea</li> <li>• manoeuvre the boat so the person can be taken on board carefully with the relevant aid</li> </ul>	Practical exercises	MOB boat Exercise with dummy and person		



Topic	3.0 NAVIGATION			
Competence objectives After completing the training, the participant will be able to:	Specification of competence objectives	Method	Learning environment	References
3.1 Navigate and steer MOB boat	The participant must be able to; <ul style="list-style-type: none"> <li>• change course using a magnetic compass</li> <li>• describe the effects of magnetism and other sources of disturbance</li> <li>• correct for the effect of wind and currents when calculating a course <ul style="list-style-type: none"> <li>○ drift as a result of wind and current acting on the MOB boat</li> </ul> </li> <li>• calculate distance and time at a known speed</li> </ul>	Practical exercises	MOB boat	
3.2 Describe how a search and rescue radar transponder (SART) is used	The participant must be able to describe how the SART works and how it is activated/deactivated.	Demonstration	MOB boat	
3.3 <b>For large MOB boats only:</b> Use GPS	The participant must be able to; <ul style="list-style-type: none"> <li>• set up the GPS with the most commonly used menus for search and rescue</li> <li>• enter waypoints with the aid of coordinates or distance/direction</li> <li>• plot and sail a course</li> </ul>	Practical exercises	On MOB boat in the sea. Use of crane/davit	
3.4 <b>For large MOB boats only:</b> Use radar	The participant must be able to; <ul style="list-style-type: none"> <li>• outline the radar image</li> <li>• distinguish false echoes</li> <li>• outline the opportunities provided by and limitations of the instrument</li> <li>• set up a radar</li> <li>• recognise a SART signal on the radar <ul style="list-style-type: none"> <li>○ set up the radar, identify SART and steer to the target</li> </ul> </li> </ul>	Practical exercises		

Topic	4.0 COMMUNICATION			
Competence objectives After completing the training, the participant will be able to:	Specification of competence objectives	Method	Learning environment	References
4.0 Use communication methods during a rescue operation	The participant must be able to; <ul style="list-style-type: none"> <li>• communicate using the communication procedure(s)</li> <li>• tune in and use communication methods in an emergency</li> </ul>	Practical exercises	MOB boat	
4.1 Check the very high frequency (VHF) radio permanently installed on board	The participant must be able to carry out; <ul style="list-style-type: none"> <li>• a functional test</li> <li>• a radio check</li> </ul>	Practical exercises	MOB boat	Radio procedure

Topic	<b>5.0 SEARCH AND RESCUE</b>			
Competence objectives After completing the training, the participant will be able to:	Specification of competence objectives	Method	Learning environment	References
5.1 Plan and carry out a systematic search	The participant must be able to; <ul style="list-style-type: none"> <li>• carry out fan, parallel and square searches</li> <li>• select a search pattern in relation to conditions <ul style="list-style-type: none"> <li>○ weather</li> <li>○ currents</li> <li>○ type of object</li> </ul> </li> </ul>	Practical exercises Exercise with the whole MOB team cooperating	MOB boat	
5.2 Outline factors which affect the lookout's efficiency and prospects for detecting objects in the sea	The participant must be able to outline; <ul style="list-style-type: none"> <li>• sectorisation</li> <li>• properties of the object</li> <li>• working in parallel</li> <li>• weather conditions</li> <li>• speed</li> <li>• positioning in the boat</li> </ul>	Practical exercises	MOB boat	
5.3 Recover a person from the sea with appropriate aids	The participant must be able to use; <ul style="list-style-type: none"> <li>• rescue grid/sealift</li> <li>• heaving line</li> <li>• boathook</li> </ul>	Practical exercises Exercise with dummy and person	MOB boat	Manufacturer's manual
5.4 Demonstrate the ability to cope with spending time in the sea	The participant must be able to; <ul style="list-style-type: none"> <li>• cope with spending time in the sea</li> <li>• jump into the water from the boat</li> <li>• enter the boat from the sea</li> <li>• swim 30 metres with a line</li> </ul>	Practical exercises	MOB boat Exercise in water	Norwegian Maritime Authority

<p>5.5 Perform appropriate first aid in the MOB boat on the basis of typical injuries encountered with a man-overboard operation.</p>	<p>The participant must be able to;</p> <ul style="list-style-type: none"><li>• examine the patient</li><li>• stabilise and place the patient stably in the recovery position after a man-overboard operation</li><li>• perform cardiopulmonary resuscitation (CPR) in the MOB boat</li><li>• describe dangers when treating a person with hypothermia</li><li>• outline causes of unconsciousness</li><li>• describe at least two indications of injuries to<ul style="list-style-type: none"><li>○ head</li><li>○ back</li><li>○ neck</li></ul></li><li>• perform clothes lift of a person with head, back or neck injuries</li><li>• prepare the patient for transfer to another unit</li></ul>	<p>Practical exercises with marker and dummy</p>	<p>MOB boat</p>	
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Topic	<b>6.0 NIGHT OPERATION MODULE</b>			
Competence objectives After completing the training, the participant will be able to:	Specification of competence objectives	Method	Learning environment	References
6.1 <b>For small MOB boat only</b> Handle a MOB boat at night	The participant must be able to; <ul style="list-style-type: none"> <li>• carry out a systematic search</li> <li>• use a compass</li> <li>• calculate distance</li> </ul>	Practical exercises	MOB boat	
6.2 <b>For large MOB boat only</b> Handle a MOB boat in the dark	The participant must be able to; <ul style="list-style-type: none"> <li>• carry out a systematic search</li> <li>• use a compass, radar and GPS</li> <li>• calculate distance</li> </ul>	Practical exercises	MOB boat	

### 3 ASSESSMENT AND DOCUMENTATION OF TRAINING

#### 3.1 Assessment

The participant must be assessed during all practical exercises.

Should the participant fail the practical exercise, they must be given a reason.

Should the participant be assessed as falling short of the competence objectives, the participant must be failed.

#### 3.2 Documentation

A course certificate must be issued on passing the course.

Valid course titles are:

OSE114 Small MOB boat with night operation

OSE114 Small MOB boat without night operation

OSE1141 Large MOB boat with night operation

OSE1141 Large MOB boat without night operation

The course certificate expires on the last day of the 24th month after the most recent course.

## 4 REVISIONS

The following revisions have been made to this document:

Revision	Date
<p>Revision 1, version 2</p> <p><b>1.3 Target group:</b></p> <p>Added the sentence: <i>“Night operation is a <u>separate module</u> taken only by personnel who require this competence.”</i></p> <p><b>2.1 Parameters for conducting the course:</b></p> <p>Small MOB boat, course duration reduced from two days to one.</p> <p>Large MOB boat, course duration reduced from three days to two.</p> <p>New paragraph on night operation: <i>“The night operation module takes four hours.”</i></p> <p>New bullet point: <i>“The night operation module must involve a minimum of three hours of practical exercises.”</i></p> <p><b>Topic 5.0 Search and rescue:</b></p> <p>5.3 Competence objectives – cut “as carefully as possible”. <i>Recover a person from the sea with appropriate aids.</i></p> <p>5.4 Specification, bullet point 4 – cut “in four minutes”. <i>Swim 30 metres with line.</i></p> <p>5.5 Specification, bullet point 7 – cut “and stretcher lift”. <i>Perform clothes lift of a person with head, back or neck injuries.</i></p> <p><b>3.2 Documentation:</b></p> <p>Defined course titles with and without night operation.</p> <p>OSE114 Small MOB boat with night operation            OSE114 Small MOB boat without night operation            OSE1141 Large MOB boat with night operation            OSE1141 Large MOB boat without night operation</p>	<p>November 2016</p>