

OLF Subject Plan
for Large MOB boat basic course
01.01.07

Subject plan for Large MOB boat basic course (5 days/ 40 periods)

Subject	1.0 Organisation/Operation/Allocation of work tasks (1 period)
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Learning objective	Contents	Performance requirements	Example of method	Example of learning environment	References
After completed training the participants shall be able to:					
1.1 Describe the primary tasks of the Large MOB boat	Applicable DFUs	Be able to explain the primary tasks of the Large MOB boat.	Theory	Classroom	Contingency plan, DFU, Requirements set by the Norwegian Maritime Directorate, PSA, etc.
1.2 Describe the composition of the crew, responsibility and authority	Crew of 3 persons -Coxswain, lookout, first aid man -Responsibility: Perform a MOB boat situation in a safe manner -Authority: Perform the task IAW the Contingency Plan/Management	The entire MOB boat crew shall be able to perform all tasks.	Theory/Practice	Classroom/boat	
1.3 Describe the crew's main tasks in a rescue situation	The following tasks must be performed: Coxswain, lookout, navigator, recover a person from the sea and First Aid.	Show by practical exercises that they can allocate and master all tasks.	Theory / Practice	Classroom/boat	
1.4 Describe the crew's actions from alarm to patient transfer	Description of situation from alarm until the situation is clarified	Show by practical exercises that they master all tasks.	Theory/Practice	Classroom/boat	DFU, SEPRA, Internal procedures, etc.

Subject plan for Large MOB boat basic course (5 days/ 40 periods)

Subject	2.0 Requirements by authorities and relevant industry (1 period)
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Learning objective After completed training the participants shall be able to:	Contents	Performance requirements	Example of method	Example of learning environment	References
2.1 Document that the MOB boat basic course has been passed	MOB boat basic course	Passed basic course with appurtenant requirements for prior knowledge.			OLF (The Norwegian Oil Industry Association)
2.2 Knowledge of the requirements from the authorities for Large MOB boat	-MOB boat types -technical specifications -approval according to the Norwegian Maritime Directorate's regulations -launching arrangement -the boat's equipment	Shall know the most important requirements set by the authorities and know where they are to be found	Theory	Classroom	Regulations for movable installations Section 21 and Norwegian Maritime Directorate For rescue vessels
2.3 Knowledge of the requirements from authorities for emergency preparedness, exercise and training	Annual plan with the following points: -technical -First Aid -Procedures -SEPPRA Exercises -maneuvering -search pattern -hoisting -launching	Recommended guidelines for MOB emergency preparedness, Item 6.2	Theory	Classroom	MOB traioning IAW maritime Activities Regulation Section 21 Recommended guidelines for MOB emergency preparedness Item 6 Norsok R-003

Subject plan for Large MOB boat basic course (5 days / 40 periods)

Subject	3.0 MOB boat technical (1 period)
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Learning objective After completed training the participants shall be able to:	Contents	Performance requirements	Example of method	Example of learning environment	References
3.1 State particular characteristics of a Large MOB boat	-how the water jet works -hook system -self-righting system -emergency steering -diesel system -cooling system	State the most important points	Theory/practice	Classroom/boat	Manufacturer's manual
3.2 Prepare boat for use	-before use checks and after use checks IAW with specific checklists	Be able to perform before and after use checks and assess the operational condition of the boat.	Theory/practice	Classroom/boat	Checklists
3.3 Knowledge of users' maintenance program for Large MOB boat	-maintenance program	State the main points of the maintenance program	Theory/practice	Classroom/boat	Manufacturer's maintenance program
3.4 Operate the engine on MOB boat	-methods of starting, stopping and operating engine	Be able to perform correct start and stop of engine	Practice	Boat	Manufacturer's manual
3.5 Explain behavior in the event of capsizing of MOB boat and how to release the self-righting equipment.	-behavior in the event of capsizing -how to release the self-righting equipment	Be able to explain how the self-righting equipment is released	Theory/ video	Classroom	Manufacturer's manuals/videos
3.6 Inspect and clean the water jet and impeller	-cleaning of water jet/water inlet -Function of impeller -access to impeller	Know how to inspect and clean the water jet (water inlet) and impeller.	Theory/ practice	Classroom/boat	Manufacturer's manual

Subject plan for Large MOB boat basic course (5 dager/ 40 periods)

Subject	4.0 Maneuvering (6 hours)
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Learning objective	Contents	Performance requirements	Example of method	Example of learning environment	References
After completed training the participants shall be able to:					
4.1 Maneuvering Large MOB boat up to vessel, platform, or other hoisting place without danger to personnel or materiell.	-procedure for maneuvering up to vessel, platform, etc. -procedure for hoisting to vessel, platform, etc.	-be able to hold the boat in position for a minimum of 20 seconds. With water jet connected. -maneuver with fixed rpm	Practice	Boat	Recommended guidelines for MOB emergency preparedness
4.2 Emergency maneuvering of Large MOB boat	-use of emergency steering -maneuvering with 1 engine.		Theory/practice	Classroom/boat	
4.3 Maneuver MOB boat up to person in the sea without danger to MOB boat crew or the person in the sea.	-safety stop -correct rpm in relation to weather and situation -placing of boat in relation to person and weather conditions	-the boat shall be correctly maneuvered so that the person can be carefully taken on board with the relevant aid. -exercise with dummy and person. -undertake recovery of person from the sea with 1 engine	Practice	Boat	
4.4 Tow liferaft and be towed in a safe manner	-towing of raft, boat, dangers, towing line etc. -use of heaving line	-be able to prepare for towing and tow liferaft and boat in a safe manner. -be able to use a heaving line to throw the towing line.	Practice	Boat/raft	
4.5 Knowledge of dangers of speeding in heavy seas	-dangers -how to secure and place personnel on board -advantages and disadvantages of driving directly towards, across, and with a following sea	Take into consideration the dangers of speeding and adjust the speed according to the conditions as well as secure personnel on board	Theory/practice	Classroom/boat	
4.6 Heli pick-up and maneuvering of MOB boat	-communication with helicopter -guide wire -reception of rescue person -transfer of patient using stretcher and rescue slings	Know the main procedure for heli pick-up from MOB boat and know where the channel plan is to be found on own installation.	Theory/ video	Classroom/boat	Contingency Plan and area emergency preparedness

4.7 Drive on board an area emergency preparedness boat	-basic procedure for entering the dock i an area emergency preparedness boat	Be able to explain the method for and dangers of docking.	Theory/ practice	Classroom/boat	
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Subject plan for Large MOB boat basic course (5 days/ 40 periods)

Subject	5.0 Hook arrangement – Launching/hoisting (1 period)
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Learning objective After completed training the participants shall be able to:	Contents	Performance requirements	Example of method	Example of learning environment	References
5.1 Explain the function and mode of operation of the boat's hook system	Relevant hooks	Be able to explain the mode of operation and handle hook system correctly.	Theory/practice	Boat	Manufacturer's manual
5.2 Procedure for launching and hoisting	<ul style="list-style-type: none"> -communication procedures for VHF/ UHF -giving signals to the crane operator -danger of capsizing when launching or taking up from boat -weather conditions 	<ul style="list-style-type: none"> -protective equipment (helmet, gloves) shall be used when hooking on -all on board shall be inboard when hoisting -know about the dangers and take them into consideration when launching or hoisting. 	Theory/ practice	Classroom/boat	Norwegian Maritime Directorate's Safety Notice 18-2001
5.3 Safe placing of crew in MOB boat in different situations	<ul style="list-style-type: none"> -placing of personnel when: -launching -hoisting -with and without patient(s) / passengers 	Assess correct placing when hoisting and launching of MOB boat.	Theory/practice	Boat	Manufacturer's manual

Subject plan for Large MOB boat basic course (5 days/ 40 periods)

Subject	6.0 Navigation and use of compass (16 periods)
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Learning objective	Contents	Performance requirements	Example of method	Example of learning environment	References
After completed training the participants shall be able to:					
6.1 Steer and make course changes according to magnetic compass, radar and GPS.	-compass rose -magnetism and other disturbing elements -"false echo" on radar -possibilities and limitations of GPS -effect of erroneous navigation	Be able to use navigational equipment in Large MOB to take a bearing with the aid of a compass, radar and GPS	Theory/practice	Classroom/boat	Nautical text books
6.2 Correct for the effects of wind and current when calculating a course.	-drift as a result of the effects of wind and current on the MOB boat	Be able to calculate deviation in relation to wind and current	Theory/practice	Classroom/boat	Nautical text books
6.3 Calculate distance, time with known speed.	-the 6-minute-rule ($S = W \times T$) -work tasks	Be able to calculate S, W and T	Theory/practice	Classroom/boat	Nautical text books
6.4 Handle MOB situation at night	-search pattern -use of compass, radar, GPS	Be able to use navigational equipment at night.	Theory/practice	Classroom/boat	Nautical text books
6.5 Use GPS	-enter waypoint with the aid of coordinates or distance/direction -time, speed to given position -plot and sail a route	Must be able to set up GPS in the most used menus in search and rescue	Theory/practice	Classroom/boat)	Manufacturer's manual
6.6 Use radar	-knowledge of the radar picture - pick out false echo - possibilities and limitations of the instrument	Must be able to set up a radar Know how radar and GPS can be used together			Manufacturer's manual
6.6 Knowledge of how a SART is used correctly	-SART	Describe SART mode of operation and how it shall be activated/deactivated.	Theory	Classroom	Manufacturer's manual
6.7 Use of pyrotechnic equipment in a safe manner	-parachute lights, hand flares, smoke signals	Be able to use pyrotechnic equipment IAW user instructions which are on the equipment.	Theory/practice	Boat/quay	LSA Code

Subject plan for Large MOB boat basic course (5 days/ 40 periods)

Subject	7.0 Communications (2 periods)
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Learning objective After completed training the participants shall be able to:	Contents	Performance requirements	Example of method	Example of learning environment	References
7.1 Use means of communication correctly during a rescue operation	-Communications procedure(s)	Accept and receipt for a message as well as communicate by the use of correct communications procedures	Theory/practice	Classroom/boat	VHF course Post and Telecommunications Inspectorate
7.2 Undertake checks of fixed VHF on board	-function test -radio check -troubleshooting	Must be able to tune in and use VHF radio in an emergency situation.	Theory/practice	Classroom/boat	Radio procedure
7.3 Internal communication in the boat	-Communication between crew in MOB boat	-demonstrate internal communication	Practice	Boat	

Subject plan for Large MOB boat basic course (5 days/ 40 periods)

Subject	8.0 Search and rescue (8 periods)
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Learning objective After completed training the participants shall be able to:	Contents	Performance requirements	Example of method	Example of learning environment	References
8.1 Use the boat's navigational aids in planning and performing a systematic search with regard to the prevailing weather conditions and information surrounding the accident situation.	-fan, parallel and square search -take into consideration wind, current, visibility and the type of object	-be able to set up and GPS or chart plotter in search -exercise with all the MOB team in co-operation . -exercise for coxswains without the aid of the rest of the MOB boat team.	Practice	Boat	Installation's contingency plans
8.2 Recognise a signal from SART on radar	Theoretical review and practical performance	-set up radar and find SART signal, as well as steering the boat towards the subject.	Theory/practice	Classroom/boat	Manufacturer's manual
8.3 Recover a person from the sea, with relevant aids as carefully as possible	-rescue grid/sealift -be able to use a heaving line where the MOB boat cannot come close to the person	-be able to use a rescue grid/sealift -exercise with dummy and person.	Practice	Boat	Manufacturer's manual
8.4 Know about the VHF direction finder	-possibilities and limitations of the VHF direction finder	Know how to set up a VHF direction finder and steer according to signal.	Theory/practice		Manufacturer's manual
8.5 Demonstrate that one is able to master a period in the sea in the event of a fall overboard or capsize of Large MOB boat. .	-period in sea -right up capsized MOB boat	-master a period in the sea -be able to enter the boat from the sea -jump into the water from the boat -right up capsized MOB boat with the aid of the self-righting system -swim 30 meters with a line in 4 minutes	Theory/practice	Classroom/boat Exercises in water	Norwegian Maritime Directorate
8.6 Perform a SAR exercise		Be able to function independently as a leader on board in an SAR.	Practice	Boat	Manufacturer's manual and nautical text books

Subject plan for Large MOB boat basic course (5 days/ 40 hours)

Subject	9.0 First Aid (4 hours)
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Learning objective After completed training the participants shall be able to:	Contents	Performance requirements	Example of method	Example of learning environment	References
9.1 Perform correct patient examination with regard to the relevant circumstances in the MOB boat.	-Degree of consciousness, respiratory passage, breathing, circulation -injury mechanisms and circumstances the patient has been exposed to	Be able to examine and assess, to know what is the correct first aid to give.	Practical training with marker/dummy	MOB boat	Norsk Førstehjelpsråd/ Universitetsforlaget: FIRST AID
9.2 Lay a person in the correct position paying attention to the patient's injuries / condition.	Consciousness, breathing, stabilisation	Lay a person in the correct position paying attention to the patient's injuries/condition and what injury mechanisms the patient has been exposed to.	Practical training with marker/dummy	MOB boat	Norsk Førstehjelpsråd/ Universitetsforlaget: FIRST AID
9.3 Prepare the patient for transfer to another unit	Preparation and transfer of patient to the nurse on the installation, another vessel or helicopter (pickup)		Practical training with marker/dummy	MOB boat	Procedure
9.4 Perform CPR on dummy under prevailing conditions on board the MOB boat.	-5 breaths with drowning -30 / 2 (CPR)	Perform CPR alone as well as with another person	Theory/practice	Classroom/boat	Norsk Førstehjelpsråd/ Universitetsforlaget: FIRST AID
9.5 State at least reasons for unconsciousness	Hypothermia, head injury, lack of oxygen, circulation failure	Know and take this into consideration in the treatment of the patient.	Theory/practice	Classroom/boat	Norsk Førstehjelpsråd/ Universitetsforlaget: FIRST AID
9.6 State at least two indications of each of the following injuries: Head, back and neck	Indications of: -head injury, back injury and neck injury	Know the normal indications	Theory	Classroom/boat	Norsk Førstehjelpsråd/ Universitetsforlaget: FIRST AID
9.7 Perform clothes lift / stretcher lift of a person with back and head injuries	-lifting techniques in the event of back and head injuries	Performed by at least two persons	Theory/practice	Classroom/boat	Norsk Førstehjelpsråd/ Universitetsforlaget: FIRST AID

9.8 Treat a hypothermic person by paying attention to applicable dangers	-"Rescue death" -stages of hypothermia (mild, moderate, deep)	-know the symptoms of hypothermia -know the recommended methods of treating a hypothermic person and why.	Theory/practical training	Classroom/boat	Norsk Førstehjelpsrad/ Universitetsforlaget: FIRST AID
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