

Offshore Norge Training curriculum

Basic safety and emergency preparedness refresher course

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FOREWORD

This training curriculum has been compiled for course providers approved by Offshore Norge to provide the basic safety and emergency response refresher course.

The training is intended to provide competence on basis safety and emergency response offshore.

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

The contact for this training curriculum in Offshore Norge is the manager, expertise development.

Offshore Norge training curricula are owned by Offshore Norge.

See Offshore Norge 002 Recommended guidelines for safety and emergency preparedness training and requirements for safety and emergency response training.

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1 INTRODUCTION

1.1 Purpose

This training curriculum describes requirements for the content and execution of the basic safety and emergency response refresher course.

The training is designed to provide competence on:

- risk understanding and barriers
- first aid
- helicopter evacuation
- fire-fighting
- means of evacuation
- using a survival suit in the sea

1.2 Learning outcomes

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

- describe risk factors and identify barriers
- contribute to increased safety on offshore facilities
- perform life-saving first aid
- evacuate from a helicopter
- prevent fires from starting and extinguish minor fires
- evacuate from offshore facilities by escape chute and liferaft
- use a survival suit in the sea

1.3 Target group

The target group for the training is everyone due to stay on facilities on the Norwegian continental shelf (NCS).

1.4 Refresher frequency

The training must be repeated every 48th month by everyone due to stay on facilities on the NCS.

Personnel who have not completed the basic safety refresher course within the past four years must take the refresher course before travelling offshore.

Personnel who have not completed the basic safety refresher course in the past eight years before travelling offshore must repeat the basic safety and emergency preparedness course.

Chapter 3.3, Offshore Norge 002 Recommended guidelines for safety and emergency preparedness training

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 six course participants

one instructor per course participant during helicopter evacuation

Duration of the course is two days.

A minimum of 12 hours of practical exercises.

- One course day is eight hours with a minimum of six hours of effective training
- One hour is 60 minutes

The e-learning must contain all the theoretical competence objectives in the training curriculum, which is the following competence objectives: 1.1, 1.2, 1.3, 1.4, 2.3, 3.2, 3.3, 3.4, 4.1, 4.2, 5.2 and 6.3.

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 safety and emergency preparedness course or STCW basic safety training (STCW A-V/1) approved by a national maritime authority or OPITO 5700 - Basic Offshore Safety Induction and Emergency Training (BOSIET) with Emergency Breathing System (EBS)/OPITO 5858 - Further Offshore Emergency Training (FOET) with Emergency Breathing System (EBS).

Certified maritime personnel who have completed the helicopter underwater escape training (Huet) at an Offshore Norge certified course provider during the past 60 months do not need to take topic 3.0 on helicopter evacuation.

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	1.0 RISK UNDERSTANDING AND BARRIERS					
Competence objectives After completing the training, the participant will be able to:		Specification of competence objectives	Method	Learning environment	References	
1.1 Describe which types of risk offshore	k can arise	The participant must be able to;	Practical exercise Exchange of experience			
1.2 Identify barriers		The participant must be able to identify barriers;	Practical exercise			
1.3 Describe the consequences barriers	of breaching	The participant must be able to describe various barrier breaches and their potential consequences.	Group sessions Discussion Exchange of experience		Maersk Interceptor accident	

Topic	1.0 RISK UN	DERSTANDING AND BARRIERS			
Competence objectives After completing the train participant will be able to		Specification of competence objectives	Method	Learning environment	References
1.4 Describe security incidents prevention	s and their	The participant must be able to describe; • the difference between safety and security incidents • definitions of safety and security • possible security threats • terrorism • sabotage • espionage • information theft • cybercrime • activism • Notifying and reporting of security incidents The participant must be able to describe how security incidents are prevented; • Barriers • heliport • alcohol and prohibited substances • mental instability • supply chain	Theory lesson(s) Group discussion with minimum of two assignments	Classroom	Training materials developed by Offshore Norge

Topic 2.0 FIRST	AID			
Competence objectives After completing the training, the participant will be able to:	Specification of competence objectives	Method	Learning environment	References
2.1 Assess level of consciousness	The participant must be able to determine and report the level of consciousness; • awake • responding to questions • reacting to pain • no reaction to pain	Practical exercise	Classroom	Norwegian electronic medical handbook Norwegian handbook of emergency medicine
2.2 Perform basic cardiopulmonary resuscitation (BCPR)	The participant must know;	Practical exercises in accordance with national guidelines for BCPR (Norwegian Resuscitation Council) Group sessions		The Norwegian Resuscitation Council Guidelines - basic CPR adults
2.3 Describe the most important first-aid treatments if acute heart disease is suspected	The participant must be able to describe first-aid measures in the event of chest pains and to recognise symptoms of acute heart disease; • radiating chest pain • breathing difficulties and severe pain in stomach region • crushing feeling in the chest and pain in the upper back area • chest pain which improves with rest • Sudden feeling of exhaustion, feeling of fatigue	Theory lesson(s) E-learning Practical exercise	Classroom	Follow the Norwegian basic first aid course's instructor guidelines when conducting the course

Topic	2.0 FIRST AID	T AID					
Competence objectives After completing the train participant will be able to:		Specification of competence objectives	Method	Learning environment	References		
2.4 Halt external bleeding		The participant must be able to halt external bleeding by	Practical exercise with the aid of pointer	Classroom/ practice area			

Topic	3.0 HELICOPTER EVACUATION				
Competence objectives After completing the train participant will be able to:		Specification of competence objectives	Method	Learning environment	References
3.1 Demonstrate behaviour in prepared/controlled and u emergency landing in the s	nexpected	The participant must be able to do the five-point preparation; • secure loose objects • suit (correct dress) • check seat belt • reorientation • adopt brace position	Practical exercise Demonstration	Pool/sea	
3.2 Describe behaviour after an landing on the sea when the floating the right way up		The participant must be able to describe the procedure; • release the nearest escape route • establish emergency breathing system (EBS) • establish reference point (window and valve) • remain seated with seat belt fastened and await crew orders • when evacuating, concentrate on reference points	Practical exercise Demonstration	Pool/sea	
3.3 Describe behaviour when e helicopter under water	evacuating a	The participant must be able to describe the significance of;	Practical exercise Demonstration	Pool/sea	

3.4	Participants must be able to describe;	Practical exercise	Classroom	
Describe risks posed by an emergency landing on the sea	 risks before an emergency landing lack of information from pilots vibration lack of time to prepare 	Demonstration		
	 risks during an emergency landing; injuries to personnel from hard landing on the sea/land water intrusion with emergency landing on the sea helicopter overturns 			
	 risks after emergency landing/evacuation; water intrusion in helicopter cold gasp effect from failure to close suit zip hypothermia helicopter fuel on the sea surface fire 			
3.5 Using the EBS	The participant must be able to demonstrate and describe the main points in using the EBS; • readying • breathing technique • limitations The participant must undertake water familiarisation by doing exercises 1-4 before evacuation from the simulator. • exercise 1: Hold breath for 10 seconds. • exercise 2: Use the EBS with face in the water, 20 secs minimum, 30 secs maximum. • exercise 3: Use the EBS with face in water while pulling along on a rope.	Practical exercise Demonstration	Pool/sea	Brooks, Dr C J and Cunningham, W F (1978), Helicopter Underwater Escape Trainees
	 exercise 4: use the EBS in an overturned helicopter, 10 secs minimum, 20 secs maximum. 			

3.6 Evacuation from helicopter/simulator	 The participant must evacuate from a helicopter/simulator as a practical exercise; exercise 1: Emergency landing on the "sea", helicopter stops on the surface, window removed, EBS established, helicopter sinks straight down (with stop). exercise 2: Emergency landing on the "sea", helicopter stops on the surface, window removed, ESB established, helicopter rotates 180 degrees (with stop). exercise 3: Emergency landing on the "sea", helicopter stops on the surface, ESB established, window removed under water, helicopter rotates 180 degrees (with stop). exercise 4: Emergency landing on the "sea", helicopter moves forward slowly when it hits the water, window removed, ESB not used, helicopter rotates 180 degrees 	Practical exercise Practical exercise in connection with helicopter capsize: one instructor per student inside the helicopter simulator	Pool/sea	Mills, A M and Muir, H (1999), Development of training standard for underwater survival. Technical report prepared for Shell Oil.
3.7 Prepare the helicopter raft for use on the sea	 (with stop). The participant must be able to prepare the helicopter raft for use on the sea; demonstration of raising the raft cover review and demonstration of the raft's equipment. 	Practical exercise Demonstration Group sessions		

Topic	4.0 FIRE PROT	.0 FIRE PROTECTION					
Competence objectives After completing the training, the participant will be able to:		Specification of competence objectives	Method	Learning environment	References		
4.1 Describe the risks of poisor gas inhalation	ing posed by	The participant must be able to describe;	Practical exercise Demonstration	Fire drill field			
4.2 Describe the use of respirate demonstrate evacuation in poor visibility		The participant must be able to describe; • why one should familiarise oneself with emergency exits and escape routes • where respirators and escape masks are used The participant must be able to evacuate in conditions of poor visibility over a distance of at least 20 metres with various obstacles.	Practical exercise	Classroom/ fire drill field			

Topic	4.0 FIRE PRO	TECTION			
Competence objectives After completing the train participant will be able to		Specification of competence objectives	Method	Learning environment	References
4.3 Extinguish small fires with various extinguishing tech		The participant must be able to describe;	Minimum of one exercise per student using powder extinguisher. Minimum of one exercise per student with CO ₂ extinguisher. Minimum of one exercise per student using foam extinguisher. Demonstrations: - use of fire blanket - fire in grease pot - electrical fire - powder apparatus against fibre fire - foam apparatus against liquid fire		

Topic	5.0 MEANS OF EVACUATION				
Competence objectives After completing the training participant will be able to:	ng, the	Specification of competence objectives	Method	Learning environment	References
5.1 Evacuate via escape chute		The participant must be able to describe deployment of the escape chute. The participant must be able to evacuate via the escape chute; evacuate at least twice second time walk down the final cell on the outside. The participant must be able to describe preparing an evacuation raft for taking people aboard from the base of an escape chute.	Demonstration Practical exercise	The escape chute must have at least five cells	
5.2 Describe evacuation with daraft	ovit-launched	The participant must be able to describe; • principles and method for deploying the davit-launched raft • inflation • preparing • entering • weight distribution • lowering • how to behave during lowering of davit-launched raft	Theory lesson(s) E-learning Demonstration		
5.3 Board a raft from the sea		The participant must be able to board from the sea with; • a boarding platform and/or ladder • the correct technique for boarding individually or with help from other participants	Practical exercise	Pool/sea	

Topic	5.0 MEANS OF EVACUATION					
Competence objectives After completing the training, the participant will be able to:		Specification of competence objectives	Method	Learning environment	References	
5.4 Prepare the raft for use in	the sea	The participant must be able to prepare the raft by; stabilising it, deploying the sea anchor and positioning personnel on the side towards the sea anchor preventing hypothermia – clarify: close hatches, drain out water, inflate air in double bottom using the right method to recover people from the identifying its emergency equipment: distress flares, first-aid kit	Practical exercise Group sessions	Pool/sea		
5.5 Turn a capsized raft right-s	ide-up	The participant must be able to right a capsized raft; • describe the method for turning a capsized raft right-side-up • collectively turn a capsized raft right-side-up	Group of no more than six people	Pool/sea Use a raft accommodatin g at least 12 people		

Topic 6.	6.0 USING A SURVIVAL SUIT IN THE SEA				
Competence objectives After completing the training, the participant will be able to:		Specification of competence objectives	Method	Learning environment	References
6.1 Use their survival suit as an ite equipment	em of rescue	The participant must be able to use the survival suit; • put on the suit • self-check that it is put on correctly • use the suit's equipment and functions • check the camera • check the suit: zipper, visor, gloves, buddy line. The participant must be familiar with the techniques for wearing a survival suit in the sea; • tread water, turn from back or stomach to upright position and move nine metres, as well as change direction • various techniques while wearing a survival suit • chain (lie in a row against the wind) • buddy line in snake.	Practical exercise	Waves: the required height in a pool is about 0.5 metres. Wind: 10 m/s< Sea spray: deluge, hose with spray nozzle or similar	Manufacturer's manual/ recommendations
6.2 Drop into the sea from a heigh	ht	 The participant must be able to drop into the sea from a height; describe various opportunities available for getting to the sea surface be able to use the correct technique for leaping from a considerable height by jumping into the sea with a minimum drop of one metre. 	Practical exercise	Sea/pool Maximum jump height is two metres	
6.3 Describe retrieval by helicopte sea/raft	er from the	The participant must be able to describe; • how to act on orders • handling a guideline • preparing for retrieval.			

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.

Personnel can obtain exemption for Huet when taking the safety course refresher. Chapter 3.3, Offshore Norge 002 Recommended guidelines for safety and emergency preparedness training

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.

Course participants who fail to complete competence objective 3.6 Evacuation from helicopter/simulator can have their certificate endorsed with an N notation.

Personnel who have obtained exemption for Huet when taking the safety course refresher will be issued with a certificate endorsed with GSK-N. This course certificate is only valid on the NCS.

The course certificate expires on the last day of the 48th month since the latest course was completed.

3.3 Documentation for certified maritime personnel.

A course certificate must be issued on passing the course.

If the course participant has completed Huet earlier, the safety course refresher will be backdated to the date when Huet was completed.

The course certificate expires on the last day of the 48th month since the most recent course was completed.

4 REVISIONS

The following revisions have been made to this document:

Revisions:	Date:
Version no 5:	9 April 2021
Chapter 2.1 Parameters for conducting the course:	
Added section on requirements when using e-learning.	
<u>Chapter 2.3 Prior knowledge</u> :	
Added "OPITO 5700 - Basic Offshore Safety Induction and Emergency Training (BOSIET) with Emergency Breathing System (EBS)/OPITO 5858 - Further Offshore Emergency Training (FOET) with Emergency Breathing System (EBS)."	
Topic 1.0 Risk understanding and barriers:	
Competence objective 1.2 changed bullet point under specification.	
Competence objective 1.3 changed reference.	
Competence objective 1.4 fifth bullet point changed and sixth bullet point added under specification. Added two bullet points on barriers, helicopter under specification. Added "minimum of 2 assignments" on methods. Added learning environment.	
Topic 2.0 First aid:	
Competence objective 2.2 changed reference.	
Topic 4.0 Fire protection:	
Competence objective 4.3 added new bullet point under "the participant must be able to outline the order of priority" and new bullet point under "the participant must be able to extinguish an early fire in flammable fluid with the use of" under specification. Method changed from "minimum of two exercises per student" to "minimum of one exercise per student". Foam added as extinguishing agent.	
<u>Topic 5.0 Means of evacuation</u> :	
Competence objective 5.1 changed final paragraph under	

specification from "the participant must be able to describe	
Inflating and attaching the evacuation raft on the sea" to "the	
participant must be able to describe preparing an evacuation	
raft for taking people aboard from the base of an escape chute".	
Topic 6.0 Using a survival suit in the sea:	
Competence objective 6.1 removed requirement for wave	
heights in the sea. Removed water temperature from learning	
environment. Added method.	
Version no 4:	20 December 2018
<u>Chapter 2.3 Prior knowledge</u> :	
Changed to that everyone with STCW basic safety and	
emergency preparedness (STCW-A-VI/1) can complete GSK	
refresher course.	
Version no 3:	26 January 2018
<u>Chapter 2.3 Prior knowledge</u> :	
STCW added.	
Chapter 3.3 Documentation for certified maritime personnel:	
New chapter.	
Version no 2:	7 September 2017
Chapters 1.1 Purpose and 1.2 Learning outcomes, amended final	
bullet point in both chapters.	
Topic 1.0 Risk understanding and barriers:	
Competence objective 1.4 on security is a new competence	
objective.	
Topic 3.0 Helicopter evacuation:	
Competence objective 3.3, improved language for specification	
Competence objective 3.4, expanded on specification of the	
competence objective by adding further descriptions of the	
three existing bullet points.	
Competence objective 3.5, amended final bullet point under	

specification.

Topic 4.0 Fire protection:

Transferred from topic 6 to topic 4.

<u>Topic 5.0 Means of evacuation:</u>

Competence objective 5.1, amended competence objective and specification of competence objective.

Competence objective 5.4, improved language for competence objective and specification of competence objective.

<u>Topic 6.0 Using a survival suit in the sea</u>, changed from "survival techniques in rough seas", amended description.

Competence objective 6.1, improved language for final bullet point under specification of competence objective.

Chapter 3.2 Documentation:

Added the sentence: "Course participants who fail to complete competence objective 3.6 Evacuation from helicopter/simulator can have their certificate endorsed with an N notation."