



GLOBAL WIND  
ORGANISATION

# Sea Survival Module

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## 12 MODULE 6 – BST SEA SURVIVAL

### 12.1 AIMS AND OBJECTIVES OF THE BST SEA SURVIVAL MODULE

The aims of this BST Sea Survival course are to give, by theoretical and practical training, participants the ability to act safely and responsibly and to take the correct preventive actions in all aspects of offshore operations from shore to installation vessel (or WTG) and vice versa. This is both during normal operations and in an offshore wind energy environment emergency.

The overall learning objective:

- 1) After successfully having completed this BST Sea Survival Module, the participants have the ability to act safely and responsibly in an offshore work environment and to take responsibility for their own and fellow employees' safety in work situations as well as in emergency situations (Ability, intermediate level).

Note: In addition to adhering to legal regulations and standards, the training provider must continuously ensure that the training material is updated and in alignment with industry guidelines from G+ specifically: Working at Height in the Offshore Wind Industry and Safe Management of Small Service Vessels Used in the Offshore Wind Industry.

### 12.2 PARTICIPANTS PREREQUISITES

Prerequisites for participating in the Sea Survival module is a valid GWO Working at Height training certificate.

### 12.3 INSTRUCTOR QUALIFICATION PRE-REQUISITES

A competent GWO BST Sea Survival module instructor must adhere to the instructor qualifications as per the Requirements for GWO training providers as well as holding a valid GWO Working at Height training certificate

### 12.4 DURATION OF THE SEA SURVIVAL MODULE

The total contact time for completing this sea survival module is estimated to be 6 hours and 30 minutes. This is based on the time estimate given in the module timetable.

The training provider must not exceed the times per day given in table 12-4 below.

The training provider must ensure that sufficient time is allowed for participants with prior experience to share their experiences related to sea survival in a way that is constructive for the entire class.



	Maximum Duration Per Day
Contact time	8 hours
Total training day	10 hours

Table 12-4 - Maximum durations for training day

**Note:** Contact time includes delivery of course lesson contents, practical exercises and activities directly related to these.

The total training day includes contact time, meals and breaks and travel between training sites (where applicable).

## 12.5 INSTRUCTOR TO PARTICIPANT RATIO

The ratio shown in table 12.5 indicates the maximum number of participants that shall attend the course per instructor.

Module	Session	Ratio
Sea Survival Module	Theory	1:12
	Practical	1:6

**Note:** There must always be at least two instructors or rescue person present during practical training

**Note:** The local training site emergency response plan may call for a further number of qualified safety and rescue personnel

Table 12-5 - The instructor course participant ration

## 12.6 EQUIPMENT FOR SEA SURVIVAL MODULE

The equipment required for training as listed in Annex 1 must be available and must fulfil national legal requirements as listed in A1-5 in Annex 1 where applicable.

## 12.7 BST SEA SURVIVAL MODULE TIMETABLE

The order in which the elements of this BST training module are delivered may vary.

Within the module timetables, approximate duration of each of the lessons are given. The training provider may choose to deliver elements of the training according to other timetables, if the total duration is not reduced, and practical elements are not reduced in length. Theoretical elements may be delivered during the practical exercises when feasible.

Lesson	Element	Approx. Duration
1	1.1	Safety instructions and emergency procedures
	1.2	
	1.3	
Introduction to the training		



		1.4	Scope and main learning objectives	
		1.5	Ongoing assessments (participant performance assessment form)	
		1.6	Motivation	
		1.7	Human factors	
			<b>TOTAL</b>	<b>20 min.</b>
2	Safety culture and legacy			
			<b>TOTAL</b>	<b>5 min.</b>
3	Cold Water immersion	3.1	Exposure	
		3.2	Cold Shock	
		3.3	Hypothermia	
		3.4	Drowning	
		3.5	Sea sickness	
		3.6	Contaminated water	
			<b>TOTAL</b>	<b>15 min.</b>
4	Lifesaving appliances (LSA) and PPE	4.1	Personal LSA and PPE	
		4.2	Collective LSA	
			<b>TOTAL</b>	<b>10 min.</b>
5	SAR and GMDSS	5.1	SAR	
		5.2	GMDSS and transponders	
		5.3	Physical actions to enhance detection	
			<b>TOTAL</b>	<b>10 min.</b>
6	Practical Sea Survival	6.1	Correct donning and use of LSA and PPE	
		6.2	Risks related to evacuation into water	
		6.3	Warm-up	
		6.4	Controlled entry into the water from TP ladder	
		6.5	Individual and collective swimming techniques	
		6.6	Correct usage of life raft	
		6.7	Emergency descent by constant rate descender	
		6.8	Summary by exercise	
			<b>TOTAL</b>	<b>140 min.</b>
7	Safe travel and transfer (theory)	7.1	Safety introduction on board transfer vessel	
		7.2	Hazards related to different types of transfers	
		7.3	Transfer vessels	
		7.4	Safe transfer form vessel	