

A.5 Learning outcomes of the BOSIET (with CA-EBS)

The learning outcomes are specified for each of the following modules; they are:

MODULE 1 Learning Outcomes Safety Induction

To successfully complete this module, delegates must be able to:

- (1) Identify the main offshore hazards and hazard effects/consequences; explain their associated risks, and how they are controlled.
- (2) Explain the potential environmental impact of offshore installation operations.
- (3) Identify key offshore installation safety regulations and explain the basic concept of these regulations.
- (4) Explain the principles of managing safety on offshore installations.
- (5) State the procedure for prescribed medicines offshore.
- (6) Explain the concept of alcohol and substance abuse policy.
- (7) Explain PPE requirements of working on an offshore installation.
- (8) Explain how to report incidents, accidents and near misses on an offshore installation.
- (9) Explain the role of the Offshore Medic.

MODULE 2 Learning Outcomes**Helicopter Safety and Escape**

To successfully complete this training, delegates must be able to **demonstrate**:

- (1) Donning of an aviation transit suit, an aviation lifejacket, compressed air emergency breathing system (CA-EBS) equipment and conducting integrity checks of the CA-EBS equipment, including buddy checks
- (2) Deploying (left and right hand) and breathing from CA-EBS equipment at atmospheric pressure in dry conditions
- (3) Actions to take in preparing for a helicopter emergency landing
- (4) Following instruction from the crew, location of CA-EBS equipment and evacuation from a helicopter using a nominated exit, following a controlled emergency descent to a dry landing (conducted in helicopter simulator at poolside on dry land)
- (5) Actions to be taken in preparing for an in-water ditching including location of exit, deploying and breathing from CA-EBS equipment at atmospheric pressure in dry conditions (conducted in helicopter simulator at poolside on dry land)
- (6) Dry evacuation, using a nominated exit, to an aviation life raft from a helicopter ditched on water (and, on instructions from the aircrew, operation of a push out window), assisting others where possible and carrying out initial actions on boarding the aviation life raft, to include: mooring lines, deploying the sea anchor, raising the canopy and raft maintenance*
- (7) Escaping through a window opening which is underwater, from a partially submerged helicopter (without operation of a push out window)*
- (8) Escaping through a window opening which is underwater, from a partially submerged helicopter (with operation of a push out window)*
- (9) Escaping through a window opening which is underwater, from a capsized helicopter (without operation of a push out window)*
- (10) Inflation of an aviation lifejacket, deployment of a spray visor and boarding of an aviation life raft from the water*

***Note: CA-EBS equipment must not be worn during Learning Outcomes 6 thru 10.**

Additional Module 2 Learning Outcomes (specific to Element 2.5)

Note 1: Delegates **must** complete Element 2.5 unless they are unable to meet the additional medical requirements stated in Section A.3, items d), e) and f). Delegates **must not** participate in the practical exercises contained in Element 2.5 if they are unable to meet the additional medical requirements stated in Section A.3, items d), e) and f).

Note 2: Delegates who provide a statement at stage f) declaring they are unfit to train on the day of the scheduled training will be required to return to the training centre at a later date to complete Element 2.5 before a certificate can be issued (provided all other course learning outcomes have been met) . Training Centres must retain records of delegates who are unable to participate in these exercises.

To successfully complete this training, delegates must be able to **demonstrate**:

- (11) Deploying CA-EBS (above the water surface) and breathing from the CA-EBS in a pool, face down in shallow water (at a maximum depth of 0.7m, measured at the chest)
- (12) Deploying CA-EBS (below the water surface, face down in a pool in shallow water) and clearing the mouthpiece by exhaling under the water surface (at a maximum depth of 0.7m, measured at the chest)
- (13) Deploying CA-EBS (below the water surface, face down in a pool in shallow water, using opposite hand to previous exercise) and clearing with purge button under the water surface (at a maximum depth of 0.7m, measured at the chest)
- (14) Deploying CA-EBS (above water surface), in a pool and breathing from CA-EBS underwater in a vertical position (at a maximum depth of 0.7m, measured at the chest)
- (15) Deploying CA-EBS (underwater), in a pool and breathing from CA-EBS underwater in a vertical position (at a maximum depth of 0.7m, measured at the chest)
- (16) Deploying CA-EBS (underwater), in a pool, breathing from CA-EBS underwater, and moving along a horizontal rail for a period of no less than 30 seconds, including a change in direction (at a maximum depth of 0.7m, measured at the chest)

Note 3: **Training Staff must directly supervise delegates during any underwater ascent using CA-EBS equipment to ensure that the delegate exhales during the ascent.**

MODULE 3 Learning outcomes Sea Survival

To successfully complete this module, delegates must be able to **demonstrate**:

- (1) Donning of a permanent buoyancy lifejacket prior to use in an emergency.
- (2) The correct actions when mustering and boarding a survival craft (TEMPSC) as a passenger during launching operations.
- (3) Fitting of a helicopter rescue device and correct body posture during winching.
- (4) Water entry (stepping off poolside, maximum height 1 metre) and the precautions to be taken when entering the water
- (5) Individual and group sea survival techniques, to include: swimming, getting into Heat Escape Lessening Position (HELP), wave-slap protection, towing, chain, huddle and circle.
- (6) Boarding a marine liferaft from the water.
- (7) *Immediate first aid actions, including checking airways, breathing and industry recognised first aid practice**

*Immediate first aid actions - putting casualty in the recovery position: delegates must get instruction and demonstration **only** from instructors on putting a casualty into the recovery position but do not need to demonstrate this.

** Industry recognised first aid practice – this may vary depending on first aid practice guidelines adopted in different countries/regions.

MODULE 4 Learning Outcomes Firefighting and Self Rescue

To successfully complete this module, delegates must be able to **demonstrate**:

- (1) Correct use of hand held portable fire extinguishers and which ones to use for different classes of fires.
- (2) Self-rescue techniques with a smoke hood or partial blindfold from areas where delegate visibility is reduced.
- (3) Self-rescue techniques with a smoke hood or partial blindfold from areas where delegate visibility is completely obscured.
- (4) Small group escape techniques with a smoke hood or partial blindfold from areas where delegate visibility is completely obscured.