



A.5 Learning Outcomes of the T- BOSIET

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 module, delegates must be able to **demonstrate**:

- (1) Donning an aviation lifejacket.
- (2) Actions to take in preparation for a helicopter ditching and an emergency landing.
- (3) Actions following a controlled emergency descent to a dry landing with evacuation via a nominated exit.
- (4) Actions following a controlled ditching on water (including operation of a push out window on instruction from aircrew) and evacuate through a nominated exit to an aviation liferaft.
- (5) Assist others where possible in carrying out **initial** actions on boarding the aviation liferaft, to include mooring lines, deploying the sea anchor, raising the canopy and raft maintenance.
- (6) Escaping through a window opening which is underwater, from a partially submerged helicopter (without operation of a push out window).
- (7) Escaping through a window opening which is underwater, from a partially submerged helicopter (including the operation of a push out window).
- (8) Escaping through a window opening which is underwater, from a capsized helicopter (without operation of a push out window).
- (9) Escaping through a window opening which is underwater, from a capsized helicopter (including the operation of a push out window)
- (10) Inflating an aviation lifejacket and deploying a spray visor in water
- (11) Boarding an aviation liferaft from water.

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.

A.6 Delegate Performance Assessment of the T- BOSIET

Delegates will be assessed against the learning outcomes specified in section A.5 using direct observation and oral and/or written questions as appropriate.

Formal evaluation of knowledge:

Delegates will be required to undertake a written test at the end of Module 1 (duration: 30 minutes) as a method of checking that they have met all the Module 1 learning outcomes. The test will be 'open-book' and questions must be clearly referenced against specific Module 1 learning outcomes and there must be a minimum of two questions per learning outcome. All learning outcomes must be achieved during the written test.

Training instructors must identify any gaps in delegate's learning and make reasonable effort to address the gaps to help delegates meet the learning outcomes.

A.4 Aims and Objectives

The aim of the additional Compressed Air Emergency Breathing System (CA-EBS) training is to complement initial and further offshore safety and emergency response training and assessment (i.e. T-BOSIET, T-HUET or T-FOET) for personnel travelling to an offshore oil and gas installation by helicopter (in a warm water tropical environment) when issued with a Compressed Air Emergency Breathing System (CA-EBS).

The objectives of the additional CA-EBS training delivered in conjunction with the T-BOSIET, T-HUET or T-FOET programmes are to:

- (a) Ensure delegates are familiar with the use of the Compressed Air Emergency Breathing System (CA-EBS)
- (b) Ensure that delegates understand their basic emergency response actions during a helicopter emergency using the CA-EBS

A.5 Learning Outcomes

During the training programme, delegates will be required to demonstrate their skills and understanding of the following key areas.

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

- (1) Donning of 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) 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)
- (4) 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)

Additional Module 2 Learning Outcomes (specific to Element 1.3)

Note 1: Delegates **must** complete Element 1.3 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 1.3 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 1.3 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:**

- (5) 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)
- (6) 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)
- (7) 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)
- (8) 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)
- (9) 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)
- (10) 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.**