Basic Offshore Safety Induction and Emergency Training (with Compressed Air Emergency Breathing System),

Helicopter Underwater Escape Training (with Compressed Air Emergency Breathing System)

Further Offshore Emergency Training (with Compressed Air Emergency Breathing System)
OPITO STANDARDS

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The contents of this document were developed by an industry workgroup facilitated and supported by OPITO. The workgroup consisted of representation from a cross section of oil and gas industry employers, discipline experts working within the industry and members of the OPITO Approved Training network.

This standard has been verified and accepted through the governance and integrity management model for OPITO standards.

Guidance on this standard is available by contacting OPITO at: Standards enquiries

This standard has been designed to accommodate global variations in national legislation and regulations. In the absence of relevant national legislation and regulations, OPITO-approved centres should use legislative and regulatory criteria specified within this Standard

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### Amendments

<table>
<thead>
<tr>
<th>Amendment and Date</th>
<th>Pages</th>
<th>Changes made by</th>
<th>Checked by</th>
<th>Approved by</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Amendment 7, 12/03/2018 –</td>
<td>9, 13, 27, 37, 40, 43, 51, 53, 56, 62, 65 and 67</td>
<td>Standards Coordinator</td>
<td>UK RAM</td>
<td>Director (Standards &amp; QA)</td>
</tr>
<tr>
<td>a) Amended Trainer/Delegate Ratio tables in B9 and E2 to state that 2 x OPITO HUET divers are required for additional CA-EBS Training (In-Water)</td>
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<td>b) Amended Section E1 to include a note that all in-water training staff delivering shallow water CA-EBS training must possess an appropriate and current certificate of fitness to dive</td>
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<td>c) Amended references from “objectives” to “outcomes” in A5, C5 and D5.</td>
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<tr>
<td>d) Included a note in A3, C3 and D3 to advise that if delegates possess a valid and current certificate of medical fitness provided by an Approved Medical Examiner of Diving (AMED) will not be required to undertake d) and e) below as they have already met the requirements of the Diving at Work Regulations 1997.</td>
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<tr>
<td>e) Added the following note into section A5,A8,C5,C8,D5 and D8: 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.</td>
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</table>
Amendment 8, 08/08/2018 – Standard amended to state that “In addition to explanations provided by training staff, demonstrations for HUET exercises must be provided using video footage” for the following:

A8: exercises 2.4.6 – 2.4.9
C8: exercises 1.4.6 – 1.4.9
D8: exercises 5.2.6 – 5.2.9

Re RFC 91/18 and UKIF 13032018

Amended A3, C3 and D3 to reference changes as per DIVING AT WORK REGULATIONS 1997 (S.I. 1997/2776) CERTIFICATE OF EXEMPTION No DWR/1 of 2018.

15082018 – Corrected an omission within Page 12, Section A5 - Module 2 Learning Outcome 1 for Helicopter Safety and Escape. Included “aviation transit suit” as part of the learning outcome, as per the same LO in the HUET with CA-EBS Section C5 Page 42 and FOET with CA-EBS Section D5 Page 55.

Any amendments made to this standard by OPITO will be recorded above.
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**Glossary of Terms and Abbreviations**

**Appendix 1 OPITO Information**
Introduction and Course Description

Basic Offshore Safety Induction Emergency Training (BOSIET) with Compressed Air Emergency Breathing System (CA-EBS)

Oil and Gas companies worldwide seek to ensure that everyone travelling to one of their offshore assets (production platform, drill rig, FPSO etc.) must have completed an appropriate offshore safety and emergency training course before being allowed to travel to their offshore asset.

The OPITO-approved BOSIET (Basic Offshore Safety Induction and Emergency Training) with Compressed Air Breathing System (CA-EBS) course provides the delegate with a range of knowledge and skills relevant to travelling offshore by helicopter and working offshore, including safety induction, fire safety and basic firefighting; first aid; using a CA-EBS; helicopter safety and escape; and survival at sea.

Upon completion of the course the delegate will have an awareness of the generic hazards and associated risks encountered when working on offshore installations and the generic safety regimes and safety management systems in place to control and mitigate risks associated with hazards.

The BOSIET (with CA-EBS) will also equip participants with the knowledge, skills and confidence to respond appropriately in the event of an offshore emergency and to enhance their survivability through proper use of emergency equipment and procedures.

Helicopter Underwater Escape Training (HUET) with Compressed Air Emergency Breathing System (CA-EBS)

The OPITO-approved HUET with Compressed Air Breathing System (CA-EBS) training programme is designed for personnel travelling to offshore installations/vessels via helicopter when issued with a Compressed Air Breathing System (CA-EBS).

This course provides delegates with the necessary skills and knowledge in emergency response related to using the CA-EBS and helicopter safety and escape.

NOTE: This course is essentially the HUET module of the BOSIET (with CA-EBS) standard, therefore training Providers wishing to deliver this Standard as a standalone course must hold BOSIET/FOET (with CA-EBS) OPITO approval.

Further Offshore Emergency Training (FOET) with Compressed Air Emergency Breathing System (CA-EBS)

The OPITO-approved Further Offshore Emergency Training programme with Compressed Air Emergency Breathing System (CA-EBS) is a 1-day course which must be undertaken by individuals who have a valid BOSIET (with CA-EBS), BOSIET(with EBS), TBOSIET, FOET (with CA-EBS), FOET(with EBS) or TFOET certificate. The FOET (with CA-EBS) certificate re-validates a delegate’s offshore emergency training for a further 4 years.
SECTION A  Basic Offshore Safety Induction Emergency Training (BOSIET) with Compressed Air Emergency Breathing System (CA-EBS)

A.1  Target Group for the BOSIET (with CA-EBS)

This training programme is designed to meet the initial offshore safety and emergency response training requirements for personnel new (or returning) to the offshore oil and gas industry who will be supplied with a compressed air emergency breathing system (CA-EBS) during offshore helicopter travel.

A.2  Delegate pre-requisites for the BOSIET (with CA-EBS)

No training pre-requisites are required.
A.3 Physical and stressful demands of the BOSIET (with CA-EBS)

Training and/or assessment activities contained within this Standard may include physically demanding and potentially stressful elements. All personnel who participate in such activities must be physically and mentally capable of participating fully.

Therefore, OPITO-approved training centres are required, as a minimum, to ensure that prior to participating in practical exercises the delegate:

a) Possesses a valid, current offshore medical certificate, OR
b) Possesses an employing company approved medical certificate equivalent to an offshore medical certificate, OR
c) Undergoes medical screening by completing an appropriate medical screening form provided by the OPITO-approved Centre (a list of medical conditions which must be included in a medical screening form is available from OPITO)

Additional Medical Requirements specific to Element 2.5 – Additional CA-EBS Training (In-Water)

Note 1: Requirements within items d) and e) below denoted with an asterix (*) are UK requirements only. Non-UK Training Centres must ensure (and be able to demonstrate) that any specific National and/or State medical requirements relating to delegates participating in in-water CA-EBS training are fully complied with and are supported by suitable and sufficient risk assessments.

OPITO-approved training centres are required to ensure that prior to participating in in-water CA-EBS practical exercises the delegate:

d) Possesses a valid, unexpired Oil and Gas UK (OGUK) offshore medical certificate confirming the delegate’s fitness for offshore work* OR possesses a valid, unexpired offshore medical certificate issued by a body outside of the UK which is recognised as equivalent to the OGUK medical certificate of fitness for offshore work*, OR possesses a valid, unexpired, medical certificate of fitness to work at sea*, AND

e) Possesses a certificate of fitness to undertake shallow water CA-EBS training issued by a registered OGUK examining doctor*, OR, where the medical fitness certificate for work at sea includes a restriction or is subject to conditions, possesses a statement from an appropriate registered practitioner that the restriction or condition does not result from a respiratory or ENT condition and there is no absolute contraindication to the shallow water delegate’s participation in the training*, AND

f) On the date on which the delegate is to undertake shallow water CA-EBS training, and prior to entering the water in which the training takes place, the delegate gives to the OPITO-approved Centre a statement, that to the best of the delegate’s knowledge and belief, the delegate has no (current or past) medical condition which makes the delegate unfit to participate in the training.

Delegates must not participate in practical exercises contained in Element 2.5 if they are unable to meet the requirements of d), e) and f) above.

Note 2: Please note that delegates who possess a valid and current certificate of medical fitness provided by an Approved Medical Examiner of Diving (AMED) will not be required to undertake d) and e) above as they have already met the requirements of the Diving at Work Regulations 1997.
The OPITO-approved Centre shall keep a record of the delegate’s/candidate’s declaration(s) of fitness in accordance with their document control policy(s) or procedures.

This information, along with summary details of the type of physical activities the delegate/candidate will be asked to perform, will be given to delegates/candidates by the OPITO-approved Centre and, if applicable, to their sponsoring company as part of the joining instructions. The responsibility for declaring any current or pre-existing medical conditions that could have adverse effects to the individual’s state of health while undertaking the training and/or assessment activities lies with the delegate/candidate and/or company sponsoring the delegate.

Where doubt exists regarding the fitness of any delegate/candidate, the OPITO-approved Centre must direct the individual to consult a medical officer familiar with the nature and extent of the training.

Note: Practical exercises must be designed and delivered solely to meet this standard, and must not place on the delegates any physical or mental demands other than those required to meet the Standard.

A.4 Aim and objectives of the BOSIET (with CA-EBS)

The aim of the BOSIET (with CA-EBS) is to introduce delegates to the specific safety issues and regimes relevant to offshore installations, and to equip them with the basic emergency response knowledge and skills for travelling to and from offshore installations by helicopter.

The objectives of the BOSIET (with CA-EBS) Training are that delegates will be able to:

(a) Identify the generic hazards which are specific to offshore oil and gas installations, potential risks associated with those hazards, and how controls are put in place to eliminate or reduce risks.
(b) Identify key offshore related safety regulations and explain the basic safety management concepts
(c) Demonstrate, in a simulated environment, that they can use the safety equipment, and follow procedures in preparing for, and during helicopter emergencies – with particular focus on escaping from a helicopter following ditching
(d) Demonstrate sea survival and first aid techniques
(e) Demonstrate that they can effectively use basic firefighting equipment, and practise self-rescue techniques in low visibility situations, to include smoke filled areas.
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.
A.6 Delegate Performance Assessment

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. 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.7 Duration and timing of the BOSIET (with CA-EBS)

The optimum ‘contact time’ for this training is seen as **20 hours and 35 mins**.

Module 1 Safety Induction part is 100% theory. An approximate ratio of 40% theory to 60% practical is appropriate for the remaining modules.

The training staff will introduce each module by explaining aims, learning outcomes, timetable, assessment methods and training staff roles. The time taken for this is expected to be approximately 10 minutes for each module, and this is in addition to the timings stated in the table below.

**Table of BOSIET (with CA-EBS) Module/Element Timings**

<table>
<thead>
<tr>
<th>Module</th>
<th>Element</th>
<th>Expected (approximate) Duration (minutes)</th>
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<tbody>
<tr>
<td>1</td>
<td>Safety Induction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.1 Industry and Installation Overview</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>1.2 Offshore hazards</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>1.3 Managing offshore safety</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>1.4 Controlling offshore hazards</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>1.5 Regulating offshore safety</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>1.6 Living and working offshore</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>Knowledge test (Question paper)</td>
<td>30</td>
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<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>(3 hrs 20 mins)</td>
</tr>
<tr>
<td>2</td>
<td>Helicopter Safety and Escape</td>
<td></td>
</tr>
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<td></td>
<td>2.1 Helicopter travel</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>2.2 Helicopter emergencies</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>2.3 Use of Compressed Air Emergency Breathing System (CA-EBS)</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>2.4 Practical Helicopter Escape Techniques</td>
<td>215</td>
</tr>
<tr>
<td></td>
<td>2.5 Additional CA-EBS Training (In-Water)</td>
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<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>(6 hrs 10 mins)</td>
</tr>
<tr>
<td>3</td>
<td>Sea Survival and First Aid</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.1 Evacuation (3.1.1 – 3.1.9)</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>3.1 Evacuation (3.1.10 -3.1.18)</td>
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</tr>
<tr>
<td></td>
<td>3.2 Emergency first aid</td>
<td>120</td>
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<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>(6 hrs 20 mins)</td>
</tr>
<tr>
<td>4</td>
<td>Fire Fighting and Self Rescue</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.1 Fire fighting offshore</td>
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</tr>
<tr>
<td></td>
<td>4.2 Self-Rescue</td>
<td>135</td>
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<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>(4 hrs 5 mins)</td>
</tr>
<tr>
<td></td>
<td><strong>GRAND TOTAL</strong> (excluding introductions of 40 mins)</td>
<td>(19 hrs 55 mins)</td>
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</tbody>
</table>

The contact time is based on the maximum number of delegates/candidates undertaking the programme. Where stated, individual module/unit/element timings that are specified within the standard must be adhered to. The contact time must not exceed 8 hours in any one day and the **total programme day must not exceed 10 hours. Practical and theory sessions must contain adequate breaks for delegate welfare. **
Contact time includes the delivery of the theoretical and practical training/assessment programme.

**The total programme day includes the delegate enrolment and certification process, contact time, welfare breaks, meal breaks and where applicable, travel between sites.**
A.8 The BOSIET (with CA-EBS) Training Programme

The training programme provided below is designed to help delegates achieve the stated learning outcomes specified in section A.5. The order in which elements of the training programme are delivered may vary. However, contents in Appendix 1 must be covered prior to course commencement.

To make efficient use of time and ensure effective learning there must, wherever practicable, be an integration of the three phases of explanation, demonstration and practise. Full use must be made of audio/visual aids and course handout material. Training staff must give practical demonstrations for all training activities which delegates are required to practise and demonstrate.

Each module must be introduced by the training staff, and include:

(a) **Aim** – The main purpose of the module
(b) **Learning Outcomes** – What the delegates are expected to learn
(c) **Timetable** – Training module duration and timing
(d) **Assessment** – how delegates will be assessed and what they will be assessed against
(e) **Staff** - who will be delivering the training and roles of training support staff.

The training course consists of the following **modules** and **elements**:

**Module 1** Safety Induction
- Element 1.1 Industry and Installation Overview
- Element 1.2 Offshore Hazards
- Element 1.3 Managing Offshore Safety
- Element 1.4 Controlling Offshore Hazards
- Element 1.5 Regulating Offshore Safety
- Element 1.6 Living and Working Offshore

**Module 2** Helicopter Safety and Escape
- Element 2.1 Helicopter Travel
- Element 2.2 Helicopter Emergencies
- Element 2.3 Use of Compressed Air Breathing System (CA-EBS)
- Element 2.4 Practical Helicopter Escape Techniques
- Element 2.5 Additional CA-EBS Training (In-Water)

**Module 3** Sea Survival and First Aid
- Element 3.1 Evacuation
- Element 3.2 Emergency First Aid

**Module 4** Firefighting and Self Rescue
- Element 4.1 Firefighting Offshore
- Element 4.2 Self-Rescue
MODULE 1       Safety Induction

ELEMENT 1.1  Industry and Installation Overview

Training staff to explain:

1.1.1   Typical offshore oil and gas activities.
1.1.2   Formation, finding and exploitation of oil and gas; how hydrocarbons are formed, found and produced.
1.1.3   Types of offshore installations, specialist vessels and their main functions and features; to include:
         (a) Drilling – jack-up, semi-sub, drill ship
         (b) Production - oil and gas, gas, fixed, floating
         (c) Construction – heavy lift, pipe laying
         (d) Accommodation - flotel
         (e) Specialist vessels – standby, support, diving support.

1.1.4   The offshore environment, (to include remote nature, harsh conditions, proximity of process/working/living environments)

ELEMENT 1.2  Offshore Hazards

Training staff to explain:

1.2.1   Definitions of hazard, risk and control measures
1.2.2   Accident statistics; comparison with other industries
1.2.3   Environmental impact and statistics
1.2.4   Offshore hazards and comparative risk levels including:
         (a) Pressure hazards, to include: oil/gas reservoir, process/drilling pipework, water/gas injection, gas and compression.
         (b) Motion hazards, to include: drilling tubulars, exposed machinery parts, moving heavy equipment and manual handling.
         (c) Chemical hazards, to include: drilling chemicals, reservoir fluids/gases (including H2S), process chemicals and solvents
         (d) Electrical hazards, to include: maintenance of electrical equipment, faulty electrical equipment.
         (e) Gravity hazards, to include: working under suspended loads, working at heights and slips and trips.
         (f) Noise hazards, to include: working in process areas, drilling areas, helicopter areas and noise exposure levels.
         (g) Hazardous atmospheres, to include an explanation of how areas are designated hazardous zones.
         (h) Confined space hazards, to include the following characteristics: limited openings for entry or exits, confined spaces when working inside containers or vessels and unfavourable natural ventilation.
ELEMENT 1.3 Managing Offshore Safety

Training staff to explain:

1.3.1 The multiple barriers model and systems in place to prevent hazards from contacting targets including:
   (a) Safe Systems of Work (SSOW)
   (b) Personal Responsibility for Safety (PRfS)
   (c) Safety observation programmes.

ELEMENT 1.4 Controlling Offshore Hazards

Training staff to explain:

1.4.1 The hierarchy of control and how control measures are implemented offshore
1.4.2 Determining risks and implementing control measures to include:
   (a) Reservoir/pipe work isolation
   (b) Blowout preventers (BOP)
   (c) Training on handling tubulars
   (d) Guarding of machinery
   (e) MSDS/chemical and dust protection
   (f) Electrical isolation
   (g) Fall protection
1.4.3 The consequences of failure to control the risks.
ELEMENT 1.5  Regulating Offshore Safety

Training staff to explain:

1.5.1  How offshore safety is regulated; to include:

(a) Applicable legislation
(b) Legislative requirements
(c) Legal responsibilities
(d) Role of industry organisations
(e) Documenting the safety management systems.

1.5.2  Hierarchy of legislation.
1.5.3  Directives.
1.5.4  Safety Case regulations – identification of major hazards, risks and control measures, how safety is audited, acceptance by the health and safety regulator, verification of safety critical systems and performance standards.
1.5.5  Duties of employer and employees and concept of ALARP.
1.5.6  How goals are set for prevention/protection and emergency response, emergency response planning and performance standards.
1.5.7  Role of the Health and Safety Authorities – scope, activities and powers of the Health and Safety Inspector.
1.5.8  Use of relevant ISO standards, to include ISO 14001.
1.5.9  Industry’s expectations of personal safety behaviour, to include: the industry’s expected standards for safety and typical behavioral safety tools.

ELEMENT 1.6  Living and Working Offshore

Training staff to explain:

1.6.1  Fitness requirements and medical standards.
1.6.2  The procedure for taking prescribed medicines offshore.
1.6.3  Alcohol and substance abuse policies.
1.6.4  Offshore routine requirements and welfare, to include:

(a) Administration arrangements and requirements on arrival on an offshore installation.
(b) Items permitted/not permitted offshore.
(c) Installation induction
(d) Safety constituencies
(e) Role of safety representatives and safety committees
(f) Responsibilities of employers
(g) Employee line of reporting
(h) Cabin/laundry/bond
(i) Recreation/smoking
(j) Getting on with others.

1.6.5  Working routines to include:
(a) Procedures
(b) Work authorisation
(c) Personal Protective Equipment (PPE)
(d) Maintaining a safe workplace
(e) Waste disposal
(f) The right to stop unsafe work.

1.6.6 Involvement in safety, to include:

(a) Observation systems
(b) PTW
(c) Toolbox talks
(d) Safety meetings
(e) Drills and exercises
(f) Additional emergency response duties
(g) Getting involved.

1.6.7 Communicating safety, including lines of communication

1.6.8 What to do when not satisfied with response to safety communication, to include contacting immediate supervisor, OIM, Safety Representative, health and safety regulator.

1.6.9 Injuries and illness, to include:

(a) Reporting incidents, accidents, near misses and illnesses
(b) The role of the offshore medic
(c) First aid arrangements offshore
(d) Investigation of incidents and accidents
(e) Preventing a recurrence
(f) Support available to relatives in the event of illness/injury/major incident/evacuation.

Formal evaluation of knowledge (see A.6)
MODULE 2  Helicopter Safety and Escape

ELEMENT 2.1  Helicopter Travel

Training staff to explain:

2.1.1  Pre-flight briefings

2.1.2  The *procedures and requirements for pre-boarding, safe boarding, in-flight and safe disembarkation including:

(a)  Arrival time
(b)  Correct dress
(c)  Documentation
(d)  Prohibited articles
(e)  Check-in procedures
(f)  Safe boarding
(g)  Pre-flight video

*This is in addition to the information detailed during pre-flight briefings.

2.1.3  *Delegates must be made aware that they should ensure they familiarise themselves with the aviation transit suit they are expected to use before boarding a helicopter.

*Note: there are various types of aviation transit suits being used in the industry. Although one type of aviation transit suit will be used in the training centre where the delegate is trained, it is important that the delegate is made aware that other types will be used in other regions/areas.

ELEMENT 2.2  Helicopter Emergencies

Training staff to explain:

2.2.1  Informing the crew of suspected or observed helicopter emergencies, to include:

(a)  Discovering a fire
(b)  Smoke
(c)  Fuel leaks
(d)  Abnormal conditions which the crew may not be aware of.

2.2.2  In-flight procedures to include:

(a)  Don hood – ensure survival suit is zipped up
(b)  Check seat belt is tight and lifejacket is secure
(c)  Following crew instructions.

2.2.3  Aircraft basic flotation characteristics.

2.2.4  Aircraft escape routes for ditching and emergency landing.

2.2.5  Independent action.

2.2.6  Survival techniques following ditching and emergency landing either on land or in water.
Training staff to explain and demonstrate:

2.2.7 Donning a *aviation transit suit (of a type typically used in the region/area of operations) compressed air breathing system (CA-EBS) and an aviation lifejacket.

2.2.8 Actions in preparation for a helicopter ditching and emergency landing, including brace positions for the range of seating locations and harness types.

2.2.9 Helicopter evacuation, to include:

(a) Locate
(b) Release (on-command)
(c) Evacuating through nominated exits and push-out windows: on-water, underwater and capsize.
(d) Impact attenuating seats, to include purpose and operation of seat, evacuation technique (demonstration not required, this will be achieved by the use of video or slides)

2.2.10 Emergency equipment onboard the helicopter, including stowage location of aviation liferaft, operation and entry.

2.2.11 Initial actions on boarding the aviation liferaft i.e. how to use mooring lines, deploying the sea anchor, raising the canopy and raft maintenance.

2.2.12 Use of aviation liferaft equipment and secondary actions on boarding the aviation liferaft, to include e.g. posting lookouts, activating the radio beacons and first aid (Note: Instructors do not need to demonstrate secondary actions)

ELEMENT 2.3 Use of Compressed Air Emergency Breathing System (CA-EBS)

Training staff to explain:

2.3.1 The principles of compressed air emergency breathing systems (CA-EBS)

2.3.2 The principles of other typical emergency breathing systems (EBS) used in the oil and gas industry (i.e. re-breather systems)

2.3.3 The components and elements of the CA-EBS, including:

(a) Hose (if fitted)
(b) Mouthpiece
(c) Cylinder
(d) Demand Valve
(e) Pressure indicator
(f) On/Off ratchet/knob (if fitted)
(g) On/Off Status Indicator (if fitted)
(h) Purge button
(i) Nose clip (if fitted)
(j) Charging Port
2.3.4 The operation of the compressed air EBS equipment in conjunction with other survival equipment:

(a) Life jacket
(b) Survival suit (including importance of correctly sized suit)
(c) Personal Locator Beacon (PLB)

2.3.5 The hazards associated with compressed air EBS:

(a) Medical hazards associated with lung over-expansion injuries
(b) Gasp reflex associated with cold water entry shock
(c) Coughing
(d) Dislodged mouthpiece (accidental or intentional)
(e) Accidental or deliberate loss of air including purging and hazards of incorrect purging
(f) Running out of air

Training staff to explain and demonstrate and delegates to practice:

2.3.6 The pre-donning checks on the life jacket and compressed air EBS, including:

(a) Pressure indicator reading
(b) Appropriate on/off status indicator (if fitted)
(c) Ratchet knob on/off (if fitted)

2.3.7 How to don the life jacket complete with compressed air EBS:

(a) Ensuring life jacket waist belt is not twisted (if fitted)
(b) Fastening of life jacket
(c) Adjustment of waist belt to ensure correct fit
(d) Engagement of crotch strap ensuring a correct fit and roll away and securing of excess webbing (if fitted)
(e) Ensure CA-EBS mouthpiece is correctly fitted
(f) Ensure CA-EBS hose is correctly fitted (where appropriate)

2.3.8 Deployment of CA-EBS, including:

(a) One handed deployment of the mouthpiece and nose clip in accordance with manufacturers’ guidelines
(b) How to achieve a good seal around mouthpiece
(c) How to purge water from the mouthpiece
(d) How to recover a dislodged mouthpiece
(e) Use of demand valve
ELEMENT 2.4 Practical helicopter escape techniques

Following explanations and demonstrations by training staff: delegates to practice and demonstrate:

2.4.1 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

2.4.2 Deploying (left and right hand) and breathing from CA-EBS equipment at atmospheric pressure in dry conditions

2.4.3 Actions to take in preparing for a helicopter emergency landing

2.4.4 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)

2.4.5 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)

2.4.6 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*

2.4.7 Escaping through a window opening which is underwater, from a partially submerged helicopter (without operation of a push out window)*

2.4.8 Escaping through a window opening which is underwater, from a partially submerged helicopter (with operation of a push out window)*

2.4.9 Escaping through a window opening which is underwater, from a capsized helicopter (without operation of a push out window)*

2.4.10 Inflation of an aviation lifejacket, deployment of a spray visor and boarding of an aviation life raft from the water*

*Note 1: CA-EBS equipment must not be worn during exercises 2.4.6 thru 2.4.10

Note 2: In addition to explanations provided by training staff, demonstrations for HUET Exercises 2.4.6 to 2.4.9 must be provided using video footage
ELEMENT 2.5 Additional CA-EBS Training (In-Water)

**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). Training Centres must retain records of delegates who are unable to participate in these exercises.

**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.

Following explanations and demonstrations by training staff: delegates to practice and demonstrate:

2.5.1 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)

2.5.2 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)

2.5.3 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)

2.5.4 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)

2.5.5 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)

2.5.6 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  Sea Survival and First Aid

ELEMENT 3.1  Evacuation

Training staff to explain:

3.1.1 Typical types of offshore *installation emergencies
3.1.2 Station bills
3.1.3 Various means of escape
3.1.4 Actions to be taken prior to, during and after selective evacuation or escape from an offshore installation.
3.1.5 Installation emergency knowledge required of all personnel onboard, to include:

(a) Typical layout of installations (escape routes, temporary refuge, muster locations, abandonment locations, access routes including helideck, bridge landing points and tertiary escape points)
(b) Installation alarms and communications (locations, use and appropriate response)
(c) The possibility of devolved command within the installation’s organisational structure and appropriate procedures and actions should this occur
(d) The need for and use of personal protective equipment (PPE) e.g. gloves, torch, smoke hoods, survival/abandonment suits and donning a life jacket etc.

3.1.6 The SAR organisation, means of rescue from the sea and survival craft and actions to take during rescue
3.1.7 Rescue by helicopter – winchman duties, the hi-line, double lift and single lift (as a minimum: the single lift to be demonstrated practically),
3.1.8 The importance of appropriate personal clothing
3.1.9 Methods of rescue i.e. standby vessel, FRC, MRRD, net, basket and ladder (this may be achieved by the use of video or slides)

*Installations: to include floating installations such as FPSOs and drilling rigs.

(The information in 3.1.5 (a) to (d) is in addition to the information detailed during installation safety briefings.)
Training staff to **explain**:

3.1.10 The various types of survival craft (TEMPSC) – freefall/single/twin
3.1.11 The function and capabilities of TEMPSC (e.g. air supply, fire protection, buoyancy)
3.1.12 The procedure for mustering, boarding and strapping in, including the safety precautions during lowering and release, emergency equipment and supplies
3.1.13 The various methods of tertiary escape (this may be achieved by the use of video or slides) to include:

   (a) Knotted rope
   (b) Scramble net
   (c) Davit-launched liferaft
   (d) Ladders
   (e) Person descending escape devices

**Note:** Minimum of one of the above methods is to be demonstrated practically.

Following explanations and demonstrations by training staff: delegates to **practice** and **demonstrate**:

3.1.14 Mustering, donning a life jacket, boarding and strapping in as a TEMPSC passenger (the craft then to be lowered into water and released).
3.1.15 Water entry (stepping off poolside, maximum 1m height) and the precautions when entering the water
3.1.16 The fitting of a helicopter rescue device, subsequent lifting and (simulated) entry into a rescue helicopter including:

   (a) Single strop, double strop or basket (minimum of one method to be demonstrated practically)
   (b) Body posture
   (c) Aircraft entry

3.1.17 In-water survival techniques, to include: individual (swimming, HELP, wave slap protection) and group survival techniques (towing, chain, huddle and circle), followed by rescue by one of the recognised methods available offshore.
3.1.18 Boarding a marine liferaft from the water and carrying out **initial** actions, to include mooring lines, deploying the sea anchor, raft maintenance and **secondary** actions, to include posting lookouts, activating the radio beacons and first aid equipment. (Note: Instructors need only explain secondary actions i.e. no need for instructors or delegates to demonstrate).
ELEMENT 3.2 Emergency First Aid

Note: Emergency first aid training will normally be delivered along with sea survival and must include first aid actions suitable for use in a liferaft and TEMPSC.

Training staff to explain:

3.2.1 First aid arrangements
3.2.2 Types of injuries, to include:

(a) Bleeding/burns (immediate action)
(b) Chemical contact
(c) Exposure to the elements (heat and cold)

3.2.3 Prioritising actions.
3.2.4 Immediate first aid actions suitable for use prior to the arrival of the medic/first-aider, to include:

(a) Assessing the situation – do not put yourself (or others) in danger.
(b) Making the area safe.
(c) Assess all casualties and attend to any unconscious casualties.
(d) Send for help as soon as possible.

Training staff to explain and demonstrate:

3.2.5 Raising the alarm
3.2.6 Assessing the situation
3.2.7 Checking the area is safe
3.2.8 Checking airways, breathing and industry recognised first aid practice*
3.2.9 Putting the casualty in the recovery position

Delegates to practice and demonstrate:

3.2.10 Raising the alarm
3.2.11 Assessing the situation
3.2.12 Checking area is safe
3.2.13 Industry recognised first aid practice*

* Industry recognised first aid practice – this may vary depending on first aid practice guidelines adopted in different countries/regions.
MODULE 4  Firefighting and Self Rescue

ELEMENT 4.1  Firefighting Offshore

Training staff to explain:

4.1.1 The common causes and nature of fires onboard offshore oil and gas installations with an emphasis on electrical, domestic and welding related fires.
4.1.2 The “triangle of combustion” and how fire can spread, to include: conduction, convection and radiation.
4.1.3 Extinguishing media; to include: water, dry powder, foam and CO₂.
4.1.4 The purpose of fixed fire and gas detection and firefighting systems.
4.1.5 Actions and precautions to take in areas where these systems are deployed in respect of those having an effect on a person’s health and safety i.e. deluge, halon (and halon replacement extinguishant), CO₂, and the urgent need to evacuate the area if the extinguishant has been released.

More detailed information on fire equipment and procedures specific to an installation will be included in installation safety briefings.

Training staff to explain:

4.1.6 Action on discovering a fire (installation emergency procedures) with emphasis on:

(a) Raising the alarm (give examples of methods for raising the alarm)
(b) Typical locations of portable hand held firefighting equipment (types to be used during practical session)
(c) Evacuation to designated area.

Training staff to explain and demonstrate:

4.1.7 The operation of hand held portable fire extinguishers, small bore fire hose reels, fire blankets and their use against actual Class A and Class B fires as appropriate.

Each delegate to practice and demonstrate:

4.1.8 Raising the alarm on discovery of a fire
4.1.9 The correct operation of hand held portable fire extinguishers in extinguishing Class A or Class B fires. (See note 3 below).
Notes for Element 4.1:

(1) All practical sessions involving the use of the above equipment must include the appropriate procedure on discovering a fire with emphasis on raising the alarm.

(2) The learning outcomes of this standard will be satisfied when each delegate practices the operation and use of each of the following types of fire extinguisher:

   (a) Water or foam
   (b) CO₂
   (c) Dry chemical

(3) Although class A and B fuels must be used for demonstration fires by staff, simulation using LPG may be used for delegate practical exercises.

ELEMENT 4.2 Self-Rescue

Training staff to explain and demonstrate:

4.2.1 Selection of smoke hood types.
4.2.2 Donning and use of smoke hoods.
4.2.3 Self-rescue techniques with and without respiratory protection from areas which are being subjected to smoke and heat.
4.2.4 Small group escape techniques with respiratory protection from an area which is being subjected to smoke and heat.

Delegates to practice and demonstrate:

4.2.5 Donning and use of smoke hood.
4.2.6 Self-rescue techniques with a smoke hood or partial blindfold from areas where delegate visibility is reduced.
4.2.7 **Self-rescue techniques with a smoke hood or partial blindfold from areas where delegate visibility is completely obscured.
4.2.8 **Small group escape techniques with a smoke hood or partial blindfold from areas where delegate visibility is completely obscured concluding with a muster exercise

**This exercise may be achieved by conducting exercises in darkness or by using “blacked out” smoke hoods or partial blindfolds.

Note: smoke hoods to be used in cosmetic smoke only.
SECTION B   Digital Delivery of BOSIET with Compressed Air Emergency Breathing System (CA-EBS)

B.1   Target Group for the Digital Delivery of BOSIET (with CA-EBS)

This training programme is designed to meet the initial offshore safety and emergency response training requirements for personnel new (or returning) to the offshore oil and gas industry who will be supplied with a compressed air emergency breathing system (CA-EBS) during offshore helicopter travel and who choose to complete the underpinning knowledge of the BOSIET programme via the BOSIET (with CA-EBS) on-line programme prior to attending an OPITO approved training centre to be formally assessed against all learning outcomes.

B.2   Delegate pre-requisites for the Digital Delivery of BOSIET (with CA-EBS)

Delegates must complete all online elements contained in the BOSIET (with CA-EBS) on line programme prior to attending an OPITO-approved training centre to be formally assessed against all learning outcomes.

B.3   Physical and stressful demands of the Digital Delivery of BOSIET (with CA-EBS)

The physical and stressful demands of the Digital Delivery of BOSIET (with CA-EBS) are identical to those contained in the BOSIET (with CA-EBS) Standard. These are contained in Section A.3 of the BOSIET (with CA-EBS) Standard.

B.4   Aim and objectives of the Digital Delivery of BOSIET (with CA-EBS)

The aim and objectives of the Digital Delivery of BOSIET (with CA-EBS) are identical to those contained in the BOSIET (with CA-EBS) Standard. These are contained in Section A.4 of the BOSIET (with CA-EBS) Standard.
B.5 Learning outcomes of the Digital Delivery of BOSIET (with CA-EBS)

The Learning Outcomes of the Digital Delivery of BOSIET (with CA-EBS) are identical to those contained in the BOSIET (with CA-EBS) Standard. These are contained in Section A.5 of the BOSIET (with CA-EBS) Standard.

Delegates will complete the underpinning knowledge for all learning outcomes via completion of the online BOSIET (with CA-EBS) Programme prior to attending an OPITO-approved training centre to complete formal assessment against all learning outcomes.

B.6 Delegate Performance Assessment

There is no formal assessment of learning outcomes via the BOSIET (with CA-EBS) On-Line Programme.

Delegates must attend an approved training centre for formal assessment of all learning outcomes within 90 days of completing the online elements.

Assessment at an OPITO-approved Training Centre

Delegates will be required to undertake a Module 1 written test (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. There must be a minimum of two questions per learning outcome. All learning outcomes must be achieved during the written test.

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

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.
### B.7 Duration and timing of the Digital Delivery of BOSIET (with CA-EBS)

The optimum ‘contact time’ for this the assessment is seen as **8 hours** based on a **maximum of 8 delegates**.

**Table of BOSIET (with CA-EBS) Module/Element Timings – Incorporating Digital Learning – Based on a maximum of 8 Delegates**

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<td>Knowledge test (Question paper)</td>
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<tr>
<td>2.4</td>
<td>Practical Helicopter Escape Techniques (2.4.1 – 2.4.10)</td>
<td>115 Mins</td>
</tr>
<tr>
<td>2.5</td>
<td>Additional CA-EBS Training (In-Water)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>195 Mins</strong></td>
</tr>
<tr>
<td>3</td>
<td>Sea Survival and First Aid</td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Evacuation (3.1.1 – 3.1.18)</td>
<td>Digital Learning</td>
</tr>
<tr>
<td>3.1</td>
<td>Evacuation (3.1.14 -3.1.18)</td>
<td>100 Mins</td>
</tr>
<tr>
<td>3.2</td>
<td>Emergency first aid (3.2.1 – 3.2.9)</td>
<td>Digital Learning</td>
</tr>
<tr>
<td>3.2</td>
<td>Emergency first aid (3.2.5 – 3.2.13)</td>
<td>50 Mins</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>150 Mins</strong></td>
</tr>
<tr>
<td>4</td>
<td>Fire Fighting and Self Rescue</td>
<td></td>
</tr>
<tr>
<td>4.1</td>
<td>Fire fighting offshore (4.1.1-4.1.6)</td>
<td>Digital Learning</td>
</tr>
<tr>
<td>4.1</td>
<td>Fire fighting offshore (4.1.7-4.1.9)</td>
<td>45 Mins</td>
</tr>
<tr>
<td>4.2</td>
<td>Self-Rescue (4.2.1 – 4.2.4)</td>
<td>Digital Learning</td>
</tr>
<tr>
<td>4.2</td>
<td>Self-Rescue (4.2.1 – 4.2.8)</td>
<td>60 Mins</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>105 Mins</strong></td>
</tr>
<tr>
<td></td>
<td><strong>GRAND TOTAL</strong></td>
<td><strong>480 Mins</strong></td>
</tr>
</tbody>
</table>

GRAND TOTAL (excluding registration and certification)
The contact time is based on the maximum number of delegates/candidates undertaking the programme. Where stated, individual module/unit/element timings that are specified within the standard must be adhered to. The contact time must not exceed 8 hours in any one day and the total programme day must not exceed 10 hours. Practical and theory sessions must contain adequate breaks for delegate welfare.

*Contact time* includes the delivery of the theoretical and practical training/assessment programme.

**The total programme day** includes the delegate enrolment and certification process, contact time, welfare breaks, meal breaks and where applicable, travel between sites.

### B.8 The Digital Delivery of BOSIET (with CA-EBS) Training Programme

The Digital Delivery of BOSIET (with CA-EBS) training programme is identical to the BOSIET (with CA-EBS) training programme. This information is contained in Section A.8 of the BOSIET (with CA-EBS) Standard.

Delegates will complete the theoretical content of the training programme via completion of the BOSIET (with CA-EBS) on-line programme prior to attending an OPITO-approved training centre to observe live demonstrations, and complete the assessment of the training programme.
### B.9 Trainer/Delegate Ratio (for Digital Delivery of BOSIET (with CA-EBS) delegates)

1. The ratio shown for demonstration sessions indicates the maximum number of delegates attending the course (8).
2. The ratios indicate the maximum number of delegates to be supervised by an instructor at any one time during each activity.
3. Swimmers, weak swimmers and non-swimmers must be clearly identified during all pool exercises through the use of different coloured helmets.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Session</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Helicopter Escape</strong></td>
<td>Demonstration</td>
<td>1:8</td>
</tr>
<tr>
<td></td>
<td>Dry Helicopter Escape Trainer</td>
<td>1:8</td>
</tr>
<tr>
<td></td>
<td>Helicopter Underwater Escape Trainer (HUET) (in pool)</td>
<td>1:4</td>
</tr>
<tr>
<td></td>
<td>As a minimum the HUET team must comprise of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 1 x Lead Instructor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 1 x Crane/Hoist Operator/Dive Supervisor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 2 x OPITO HUET divers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Pool safety personnel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Note: A maximum of 2 designated weak/non-swimmer delegates are permitted for any HUET (in pool) exercise</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Additional CA-EBS Training (In-Water)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>As a minimum the CA-EBS training team must comprise of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 1 x Lead Instructor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 1 x Dive Supervisor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 2 x OPITO HUET divers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Pool safety personnel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Note: Training Staff must directly supervise delegates during any underwater ascent using CA-EBS equipment to ensure that the delegate exhales during the ascent.</td>
<td></td>
</tr>
<tr>
<td><strong>Sea Survival</strong></td>
<td>TEMPSC Demonstration</td>
<td>1:8</td>
</tr>
<tr>
<td>Component</td>
<td>Ratio</td>
<td></td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td>Lowering and Release</td>
<td>1:8</td>
<td></td>
</tr>
<tr>
<td>In-Water</td>
<td>1:4</td>
<td></td>
</tr>
<tr>
<td>As a minimum the Sea Survival team must comprise of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 1 Lead Instructor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 2 (in water) pool safety personnel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supervision of ABC practical</td>
<td>1:4</td>
<td></td>
</tr>
<tr>
<td><strong>Firefighting and Self Rescue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extinguishers Demonstration</td>
<td>1:8</td>
<td></td>
</tr>
<tr>
<td>Practical Extinguishers</td>
<td>1:4</td>
<td></td>
</tr>
<tr>
<td><strong>Practical self-rescue</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group escape exercise</td>
<td>1:4</td>
<td></td>
</tr>
<tr>
<td>Self-rescue in cosmetic smoke</td>
<td>1:4</td>
<td></td>
</tr>
</tbody>
</table>
SECTION C Helicopter Underwater Escape Training (HUET) with Compressed Air Emergency Breathing System (CA-EBS)

C.1 Target Group for the HUET (with CA-EBS)

This programme is designed to meet the offshore safety and emergency response training requirements for personnel working in the offshore oil and gas industry who will be supplied with a compressed air emergency breathing system (CA-EBS) during offshore helicopter travel.

C.2 Delegate pre-requisites for the HUET (with CA-EBS)

No training pre-requisites are required.
C.3 Physical and stressful demands of HUET (with CA-EBS)

Training and/or assessment activities contained within this Standard may include physically demanding and potentially stressful elements. All personnel who participate in such activities must be physically and mentally capable of participating fully.

Therefore, OPITO-approved training centres are required, as a minimum, to ensure that prior to participating in practical exercises the delegate:

- Possesses a valid, current offshore medical certificate, OR
- Possesses an employing company approved medical certificate equivalent to an offshore medical certificate, OR
- Undergoes medical screening by completing an appropriate medical screening form provided by the OPITO-approved Centre (a list of medical conditions which must be included in a medical screening form is available from OPITO)

**Additional Medical Requirements specific to Element 1.5 – Additional CA-EBS Training (In-Water)**

**Note 1:** Requirements within items d) and e) below denoted with an asterix (*) are UK requirements only. Non-UK Training Centres must ensure (and be able to demonstrate) that any specific National and/or State medical requirements relating to delegates participating in in-water CA-EBS training are fully complied with and are supported by suitable and sufficient risk assessments.

OPITO-approved training centres are required to ensure that prior to participating in in-water CA-EBS practical exercises the delegate:

- Possesses a valid, unexpired Oil and Gas UK (OGUK) offshore medical certificate confirming the delegate’s fitness for offshore work* OR possesses a valid, unexpired offshore medical certificate issued by a body outside of the UK which is recognised as equivalent to the OGUK medical certificate of fitness for offshore work*, OR possesses a valid, unexpired, medical certificate of fitness to work at sea*, AND
- Possesses a certificate of fitness to undertake shallow water CA-EBS training issued by a registered OGUK examining doctor*, OR, where the medical fitness certificate for work at sea includes a restriction or is subject to conditions, possesses a statement from an appropriate registered practitioner that the restriction or condition does not result from a respiratory or ENT condition and there is no absolute contraindication to the shallow water delegate’s participation in the training*, AND
- On the date on which the delegate is to undertake shallow water CA-EBS training, and prior to entering the water in which the training takes place, the delegate gives to the OPITO-approved Centre a statement, that to the best of the delegate’s knowledge and belief, the delegate has no (current or past) medical condition which makes the delegate unfit to participate in the training.

Delegates must not participate in practical exercises contained in Element 1.5 if they are unable to meet the requirements of d, e) and f) above.

**Note 2:** Please note that delegates who possess a valid and current certificate of medical fitness provided by an Approved Medical Examiner of Diving (AMED) will not be required to undertake d) and e) above as they have already met the requirements of the Diving at Work Regulations 1997.
The OPITO-approved Centre shall keep a record of the delegate’s/candidate’s declaration(s) of fitness in accordance with their document control policy(s) or procedures.

This information, along with summary details of the type of physical activities the delegate/candidate will be asked to perform, will be given to delegates/candidates by the OPITO-approved Centre and, if applicable, to their sponsoring company as part of the joining instructions. The responsibility for declaring any current or pre-existing medical conditions that could have adverse effects to the individual’s state of health while undertaking the training and/or assessment activities lies with the delegate/candidate and/or company sponsoring the delegate.

Where doubt exists regarding the fitness of any delegate/candidate, the OPITO-approved Centre must direct the individual to consult a medical officer familiar with the nature and extent of the training.

Note: Practical exercises must be designed and delivered solely to meet this standard, and must not place on the delegates any physical or mental demands other than those required to meet the Standard.

C.4 Aim and objectives of HUET (with CA-EBS)

The aim of the HUET (with CA-EBS) programme is to prepare delegates that intend to travel to and from offshore oil and gas installations and vessels by helicopter by providing specific training in pre-flight and in-flight requirements and to equip delegates with the basic emergency response knowledge and skills required in the event of a helicopter emergency – with specific focus on escaping from a helicopter following ditching.

The objectives of the HUET (with CA-EBS) Training are that delegates will be able to:

(a) Demonstrate, in a simulated environment, that they can use the safety equipment, and follow procedures in preparing for, and during helicopter emergencies – with particular focus on escaping from a helicopter following ditching
C.5 Learning outcomes of the HUET (with CA-EBS)

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

**MODULE 1 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 1 Learning Outcomes (specific to Element 1.5)

Note 1: Delegates **must** complete Element 1.5 unless they are unable to meet the additional medical requirements stated in Section C.3, items d), e) and f). Delegates **must not** participate in the practical exercises contained in Element 1.5 if they are unable to meet the additional medical requirements stated in Section C.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 1.5 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.**
C.6 Delegate Performance Assessment

Delegates attending this training programme will be given a series of explanations and demonstrations by training staff which will identify what they are expected to know and do whilst preparing for and during normal helicopter travel and how to respond to helicopter emergencies. This will be followed by practical exercises which will allow delegates to practice and demonstrate their emergency response skills, knowledge and understanding in the case of a helicopter emergency.

Delegates will be assessed against the learning outcomes specified in section C.5 using direct observation.

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.
C.7 Duration and timing of the HUET (with CA-EBS)

The optimum ‘contact time’ for this training is seen as **6 hours and 10 minutes** as indicated in the table below.

The course will require the trainer to explain aims, learning outcomes, timetable, assessment methods and training staff roles. The time taken for this is expected to be approximately 10 minutes, and this is in addition to the timings stated in the table below.

**Table of HUET Module/Element Timings**

<table>
<thead>
<tr>
<th>Module</th>
<th>Element</th>
<th>Expected (approximate) Duration (minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.1</td>
<td>Helicopter travel</td>
</tr>
<tr>
<td></td>
<td>1.2</td>
<td>Helicopter emergencies</td>
</tr>
<tr>
<td></td>
<td>1.3</td>
<td>Use of Compressed Air Emergency Breathing System (CA-EBS)</td>
</tr>
<tr>
<td></td>
<td>1.4</td>
<td>Practical Helicopter Escape Techniques using CA-EBS</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>Additional CA-EBS Training (In-Water)</td>
</tr>
</tbody>
</table>

**TOTAL** (6 hrs 10 mins)

The contact time is based on the maximum number of delegates/candidates undertaking the programme. Where stated, individual module/unit/element timings that are specified within the standard must be adhered to. The contact time must not exceed 8 hours in any one day and the **total programme day** must not exceed 10 hours. Practical and theory sessions must contain adequate breaks for delegate welfare.

*Contact time* includes the delivery of the theoretical and practical training/assessment programme.

**The total programme day** includes the delegate enrolment and certification process, contact time, welfare breaks, meal breaks and where applicable, travel between sites.
C.8 The HUET (with CA-EBS) Training Programme

The training programme provided below is designed to help delegates achieve the stated learning outcomes specified in section C.5. The order in which elements of the training programme are delivered may vary. However, contents in Appendix 1 must be covered prior to course commencement.

To make efficient use of time and ensure effective learning there must, wherever practicable, be an integration of the three phases of explanation, demonstration and practice. Full use must be made of audio / visual aids and course handout material. Training staff must give practical demonstrations for all training activities which delegates are required to practice and demonstrate.

Prior to the start of the module, the following must be included as part of the introduction by training staff:

(a) **Aim** – The main purpose of the module
(b) **Learning Outcomes** – What the delegates are expected to learn
(c) **Timetable** – Training module duration and timing
(d) **Assessment** – how delegates will be assessed and what they will be assessed against
(e) **Staff** – who will be delivering the training and roles of training support staff.

The training course consists of the following **module** and **elements**:

<table>
<thead>
<tr>
<th>Module 1</th>
<th>Helicopter Safety and Escape</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element 1.1</td>
<td>Helicopter Travel</td>
</tr>
<tr>
<td>Element 1.2</td>
<td>Helicopter Emergencies</td>
</tr>
<tr>
<td>Element 1.3</td>
<td>Use of Compressed Air Emergency Breathing System (CA-EBS)</td>
</tr>
<tr>
<td>Element 1.4</td>
<td>Practical Helicopter Escape Techniques</td>
</tr>
<tr>
<td>Element 1.5</td>
<td>Additional CA-EBS Training (In-Water)</td>
</tr>
</tbody>
</table>
MODULE 1 Helicopter Safety and Escape

ELEMENT 1.1 Helicopter Travel

Training staff to explain:

1.1.1 Pre-flight briefings
1.1.2 The *procedures and requirements for pre-boarding, safe boarding, in-flight and safe disembarkation including:

(a) Arrival time
(b) Correct dress
(c) Documentation
(d) Prohibited articles
(e) Check-in procedures
(f) Safe boarding
(g) Pre-flight video

*This is in addition to the information detailed during pre-flight briefings.

1.1.3 *Delegates must be made aware that they should ensure they familiarise themselves with the aviation transit suit they are expected to use before boarding a helicopter.

*Note: there are various types of aviation transit suits being used in the industry. Although one type of aviation transit suit will be used in the training centre where the delegate is trained, it is important that the delegate is made aware that other types will be used in other regions/areas.

ELEMENT 1.2 Helicopter Emergencies

Training staff to explain:

1.2.1 Informing the crew of suspected or observed helicopter emergencies, to include:

(a) Discovering a fire
(b) Smoke
(c) Fuel leaks
(d) Abnormal conditions which the crew may not be aware of.

1.2.2 In-flight procedures to include:

(a) Don hood – ensure survival suit is zipped up
(b) Check seat belt is tight and lifejacket is secure
(c) Following crew instructions.

1.2.3 Aircraft basic flotation characteristics.
1.2.4 Aircraft escape routes for ditching and emergency landing.
1.2.5 Independent action.
1.2.6 Survival techniques following ditching and emergency landing either on land or in water.
Training staff to explain and demonstrate:

1.2.7 Donning a *aviation transit suit* (of a type typically used in the region/area of operations) compressed air breathing system (CA-EBS) and an aviation lifejacket.

1.2.8 Actions in preparation for a helicopter ditching and emergency landing, including brace positions for the range of seating locations and harness types.

1.2.9 Helicopter evacuation, to include:

(a) Locate
(b) Release (on-command)
(c) Evacuating through nominated exits and push-out windows: on-water, underwater and capsize.
(d) Impact attenuating seats, to include purpose and operation of seat, evacuation technique (demonstration not required, this will be achieved by the use of video or slides)

1.2.10 Emergency equipment onboard the helicopter, including stowage location of aviation liferaft, operation and entry.

1.2.11 Initial actions on boarding the aviation liferaft i.e. how to use mooring lines, deploying the sea anchor, raising the canopy and raft maintenance.

1.2.12 Use of aviation liferaft equipment and secondary actions on boarding the aviation liferaft, to include e.g. posting lookouts, activating the radio beacons and first aid (Note: Instructors do not need to demonstrate secondary actions)

**ELEMENT 1.3 Use of Compressed Air Emergency Breathing System (CA-EBS)**

Training staff to explain:

1.3.1 The principles of compressed air emergency breathing systems (CA-EBS)

1.3.2 The principles of other typical emergency breathing systems (EBS) used in the oil and gas industry (i.e. re-breather systems)

1.3.3 The components and elements of the CA-EBS, including:

(a) Hose (if fitted)
(b) Mouthpiece
(c) Cylinder
(d) Demand Valve
(e) Pressure indicator
(f) On/Off ratchet/knob (if fitted)
(g) On/Off Status Indicator (if fitted)
(h) Purge button
(i) Nose clip (if fitted)
(j) Charging Port
1.3.4 The operation of the compressed air EBS equipment in conjunction with other survival equipment:

(a) Life jacket
(b) Survival suit (including importance of correctly sized suit)
(c) Personal Locator Beacon (PLB)

1.3.5 The hazards associated with compressed air EBS:

(a) Medical hazards associated with lung over-expansion injuries
(b) Gasp reflex associated with cold water entry shock
(c) Coughing
(d) Dislodged mouthpiece (accidental or intentional)
(e) Accidental or deliberate loss of air including purging and hazards of incorrect purging
(f) Running out of air

Training staff to explain and demonstrate and delegates to practice:

1.3.6 The pre-donning checks on the life jacket and compressed air EBS, including:

(a) Pressure indicator reading
(b) Appropriate on/off status indicator (if fitted)
(c) Ratchet knob on/off (if fitted)

1.3.7 How to don the life jacket complete with compressed air EBS:

(a) Ensuring life jacket waist belt is not twisted (if fitted)
(b) Fastening of life jacket
(c) Adjustment of waist belt to ensure correct fit
(d) Engagement of crotch strap ensuring a correct fit and roll away and securing of excess webbing (if fitted)
(e) Ensure CA-EBS mouthpiece is correctly fitted
(f) Ensure CA-EBS hose is correctly fitted (where appropriate)

1.3.8 Deployment of CA-EBS, including:

(a) One handed deployment of the mouthpiece and nose clip in accordance with manufacturers’ guidelines
(b) How to achieve a good seal around mouthpiece
(c) How to purge water from the mouthpiece
(d) How to recover a dislodged mouthpiece
(e) Use of demand valve
ELEMENT 1.4 Practical helicopter escape techniques

Following explanations and demonstrations by training staff: delegates to practice and demonstrate:

1.4.1 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

1.4.2 Deploying (left and right hand) and breathing from CA-EBS equipment at atmospheric pressure in dry conditions

1.4.3 Actions to take in preparing for a helicopter emergency landing

1.4.4 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)

1.4.5 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)

1.4.6 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*

1.4.7 Escaping through a window opening which is underwater, from a partially submerged helicopter (without operation of a push out window)*

1.4.8 Escaping through a window opening which is underwater, from a partially submerged helicopter (with operation of a push out window)*

1.4.9 Escaping through a window opening which is underwater, from a capsized helicopter (without operation of a push out window)*

1.4.10 Inflation of an aviation lifejacket, deployment of a spray visor and boarding of an aviation life raft from the water*

*Note 1: CA-EBS equipment must not be worn during exercises 1.4.6 thru 1.4.10

Note 2: In addition to explanations provided by training staff, demonstrations for HUET Exercises 1.4.6 to 1.4.9 must be provided using video footage
ELEMENT 1.5  Additional CA-EBS Training (In-Water)

Note 1: Delegates must complete Element 1.5 unless they are unable to meet the additional medical requirements stated in Section C.3, items d), e) and f). Delegates must not participate in the practical exercises contained in Element 1.5 if they are unable to meet the additional medical requirements stated in Section C.3, items d), e) and f). Training Centres must retain records of delegates who are unable to participate in these exercises.

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 1.5 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.

Following explanations and demonstrations by training staff: delegates to practice and demonstrate:

1.5.1 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)
1.5.2 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)
1.5.3 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)
1.5.4 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)
1.5.5 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)
1.5.6 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.
SECTION D  Further Offshore Emergency Training (FOET) with Compressed Air Emergency Breathing System (CA-EBS)

D.1  Target group for the FOET (with CA-EBS)

This programme is designed to meet the further offshore safety and emergency response training requirements for personnel working in the offshore oil and gas industry who will be supplied with a compressed air emergency breathing system (CA-EBS) during offshore helicopter travel.

D.2  Delegate pre-requisites for the FOET (with CA-EBS)

The FOET (with CA-EBS) is open to persons who have a valid (in-date) OPITO-approved BOSIET (with CA-EBS), BOSIET (with EBS), TBOSIET, FOET (with CA-EBS), FOET (with EBS) or TFOET certificate.

Training providers must provide evidence that the pre-requisite requirements were met by the delegates, if requested by OPITO.
D.3 Physical and stressful demands of the FOET (with CA-EBS)

Training and/or assessment activities contained within this Standard may include physically demanding and potentially stressful elements. All personnel who participate in such activities must be physically and mentally capable of participating fully.

Therefore, OPITO-approved training centres are required, as a minimum, to ensure that prior to participating in practical exercises the delegate:

a) Possesses a valid, current offshore medical certificate, OR
b) Possesses an employing company approved medical certificate equivalent to an offshore medical certificate, OR
c) Undergoes medical screening by completing an appropriate medical screening form provided by the OPITO-approved Centre (a list of medical conditions which must be included in a medical screening form is available from OPITO)

Additional Medical Requirements specific to Element 5.3 – Additional CA-EBS Training (In-Water)

Note 1: Requirements within items d) and e) below denoted with an asterix (*) are UK requirements only. Non-UK Training Centres must ensure (and be able to demonstrate) that any specific National and/or State medical requirements relating to delegates participating in in-water CA-EBS training are fully complied with and are supported by suitable and sufficient risk assessments.

OPITO-approved training centres are required to ensure that prior to participating in in-water CA-EBS practical exercises the delegate:

d) Possesses a valid, unexpired Oil and Gas UK (OGUK) offshore medical certificate confirming the delegate’s fitness for offshore work* OR possesses a valid, unexpired offshore medical certificate issued by a body outside of the UK which is recognised as equivalent to the OGUK medical certificate of fitness for offshore work*, OR possesses a valid, unexpired, medical certificate of fitness to work at sea*, AND
e) Possesses a certificate of fitness to undertake shallow water CA-EBS training issued by a registered OGUK examining doctor*, OR, where the medical fitness certificate for work at sea includes a restriction or is subject to conditions, possesses a statement from an appropriate registered practitioner that the restriction or condition does not result from a respiratory or ENT condition and there is no absolute contraindication to the shallow water delegate’s participation in the training*, AND
f) On the date on which the delegate is to undertake shallow water CA-EBS training, and prior to entering the water in which the training takes place, the delegate gives to the OPITO-approved Centre a statement, that to the best of the delegate’s knowledge and belief, the delegate has no (current or past) medical condition which makes the delegate unfit to participate in the training.

Delegates must not participate in practical exercises contained in Element 5.3 if they are unable to meet the requirements of d), e) and f) above.

Note 2: Please note that delegates who possess a valid and current certificate of medical fitness provided by an Approved Medical Examiner of Diving (AMED) will not be required to undertake d) and e) above as they have already met the requirements of the Diving at Work Regulations 1997.
The OPITO-approved Centre shall keep a record of the delegate’s/candidate’s declaration(s) of fitness in accordance with their document control policy(s) or procedures.

This information, along with summary details of the type of physical activities the delegate/candidate will be asked to perform, will be given to delegates/candidates by the OPITO-approved Centre and, if applicable, to their sponsoring company as part of the joining instructions. The responsibility for declaring any current or pre-existing medical conditions that could have adverse effects to the individual’s state of health while undertaking the training and/or assessment activities lies with the delegate/candidate and/or company sponsoring the delegate.

Where doubt exists regarding the fitness of any delegate/candidate, the OPITO-approved Centre must direct the individual to consult a medical officer familiar with the nature and extent of the training.

Note: Practical exercises must be designed and delivered solely to meet this standard, and must not place on the delegates any physical or mental demands other than those required to meet the Standard.

D.4 Aims and objectives of the FOET (with CA-EBS)

The aim of the FOET (with CA-EBS) is to provide the delegates with the opportunity to practise and demonstrate emergency response skills which are not possible to practise during drills, exercises and emergency training offshore.

The objectives of the FOET (with CA-EBS) are that delegates will be able to:

(a) Demonstrate, in a simulated environment, that they can use the safety equipment and follow procedures in preparing for and during helicopter emergencies – with particular focus on escaping from a helicopter following ditching.
(b) Demonstrate that they can use basic firefighting equipment effectively, and use self-rescue techniques in low visibility and completely obscured visibility situations e.g. smoke filled areas.
(c) Demonstrate that they can perform basic first aid.
D.5 Learning outcomes of the FOET (with CA-EBS)

The Delegate’s learning outcomes for each module are set out below:

**MODULE 5 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. Following escape from the helicopter (HUET), inflate lifejacket, deploy spray visor and carry out in-water procedures, to include swimming, getting into Heat Escape Lessening Position (HELP), towing, chain, huddle and circle*
11. Boarding an aviation liferaft from the water*
12. Being rescued by one of the recognised methods available offshore and survivor actions following rescue*

*Note: CA-EBS equipment must not be worn during Learning Outcomes 6 thru 12
Additional Module 5 Learning Outcomes (specific to Element 5.3)

**Note 1:** Delegates must complete Element 5.3 unless they are unable to meet the additional medical requirements stated in Section D.3, items d), e) and f). Delegates must not participate in the practical exercises contained in Element 5.3 if they are unable to meet the additional medical requirements stated in Section D.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 5.3 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:

13. 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)

14. 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)

15. 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)

16. 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)

17. 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)

18. 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 6   Firefighting and Self Rescue

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

(1) Correct use of appropriate 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

MODULE 7   Emergency First Aid

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

(1) Raising the alarm
(2) *Immediate first aid actions, to include 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.
D.6 Delegate Performance Assessment of the FOET (with CA-EBS)

Delegates will be assessed against the learning outcomes specified in D.5 using direct observation.

D.7 Duration and timing of the FOET (with CA-EBS)

The optimum ‘contact time’ for this training is seen as 8 hours.

Table of FOET Module/Element Timings

<table>
<thead>
<tr>
<th>Module</th>
<th>Element</th>
<th>Expected (approximate) Duration (minutes)</th>
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<td>Course Introduction</td>
<td>C.8 Aim, learning outcomes, timetable, assessment methods and training staff roles</td>
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<tr>
<td>5 Helicopter Safety and Escape</td>
<td>5.1 Use of Compressed Air Breathing System (CA-EBS)</td>
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<td></td>
<td>5.2 Helicopter safety and escape techniques</td>
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<tr>
<td></td>
<td>5.3 Additional CA-EBS Training (In-Water)</td>
<td></td>
</tr>
<tr>
<td>6 Firefighting and self-rescue</td>
<td>6.1 Firefighting and self-rescue techniques</td>
<td>155</td>
</tr>
<tr>
<td>7 Emergency First Aid</td>
<td>7.1 Emergency first aid techniques</td>
<td>60</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>480 mins (8hrs)</td>
</tr>
</tbody>
</table>

The contact time is based on the maximum number of delegates/candidates undertaking the programme. Where stated, individual module/unit/element timings that are specified within the standard must be adhered to. The contact time must not exceed 8 hours in any one day and the total programme day must not exceed 10 hours. Practical and theory sessions must contain adequate breaks for delegate welfare.

*Contact time* includes the delivery of the theoretical and practical training/assessment programme.

**The total programme day** includes the delegate enrolment and certification process, contact time, welfare breaks, meal breaks and where applicable, travel between sites.
D.8 The FOET (with CA-EBS) Training Programme

The training programme provided below is designed to help delegates achieve the stated learning outcomes specified in section D.5. The order in which elements of the training programme are delivered may vary. However, contents in Appendix 1 must be covered prior to course commencement.

To make efficient use of time and ensure effective learning there must, wherever practicable, be an integration of the three phases of explanation, demonstration and practice. Full use must be made of audio/visual aids and course handout material. Training staff must give practical demonstrations for all training activities which delegates are required to practice and demonstrate.

Prior to the start of the module, the following must be included as part of the introduction by training staff:

(a) **Aim** – The main purpose of the module
(b) **Learning Outcomes** – What the delegates are expected to learn
(c) **Timetable** – Training modules duration and timing
(d) **Assessment** – how delegates will be assessed and what they will be assessed against
(e) **Staff** - who will be delivering the training and roles of training support staff

The FOET (with CA-EBS) Training course consists of the following modules and elements:

**Module 5** Helicopter Safety and Escape
Element 5.1 Use of Compressed Air Breathing System (CA-EBS)
Element 5.2 Helicopter safety and escape techniques
Element 5.3 Additional CA-EBS Training (In-Water)

**Module 6** Firefighting and Self Rescue
Element 6.1 Basic firefighting and self-rescue techniques

**Module 7** Emergency First Aid
Element 7.1 Emergency first aid techniques
MODULE 5  Helicopter Safety and Escape

ELEMENT 5.1  Use of Compressed Air Breathing System (CA-EBS)

Training staff to explain:

5.1.1 The principles of compressed air emergency breathing systems (CA-EBS)

5.1.2 The principles of other typical emergency breathing systems (EBS) used in the oil and gas industry (i.e. re-breather systems)

5.1.3 The components and elements of the CA-EBS, including:

(a) Hose (if fitted)
(b) Mouthpiece
(c) Cylinder
(d) Demand Valve
(e) Pressure indicator
(f) On/Off ratchet/knob (if fitted)
(g) On/Off Status Indicator (if fitted)
(h) Purge button
(i) Nose clip (if fitted)
(j) Charging Port

5.1.4 The operation of the compressed air EBS equipment in conjunction with other survival equipment:

(a) Life jacket
(b) Survival suit (including importance of correctly sized suit)
(c) Personal Locator Beacon (PLB)

5.1.5 The hazards associated with compressed air EBS:

(a) Medical hazards associated with lung over-expansion injuries
(b) Gasp reflex associated with cold water entry shock
(c) Coughing
(d) Dislodged mouthpiece (accidental or intentional)
(e) Accidental or deliberate loss of air including purging and hazards of incorrect purging
(f) Running out of air

Training staff to explain and demonstrate and delegates to practice:

5.1.6 The pre-donning checks on the life jacket and compressed air EBS, including:

(a) Pressure indicator reading
(b) Appropriate on/off status indicator (if fitted)
(c) Ratchet knob on/off (if fitted)
5.1.7 How to don the life jacket complete with compressed air EBS:

(a) Ensuring life jacket waist belt is not twisted (if fitted)
(b) Fastening of life jacket
(c) Adjustment of waist belt to ensure correct fit
(d) Engagement of crotch strap ensuring a correct fit and roll away and securing of excess webbing (if fitted)
(e) Ensure CA-EBS mouthpiece is correctly fitted
(f) Ensure CA-EBS hose is correctly fitted (where appropriate)

5.1.8 Deployment of CA-EBS, including:

(a) One handed deployment of the mouthpiece and nose clip in accordance with manufacturers’ guidelines
(b) How to achieve a good seal around mouthpiece
(c) How to purge water from the mouthpiece
(d) How to recover a dislodged mouthpiece
(e) Use of demand valve
ELEMENT 5.2  Practical helicopter escape techniques

Following explanations and demonstrations by training staff: delegates to practice and demonstrate:

5.2.1  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

5.2.2  Deploying (left and right hand) and breathing from CA-EBS equipment at atmospheric pressure in dry conditions

5.2.3  Actions to take in preparing for a helicopter emergency landing

5.2.4  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)

5.2.5  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)

5.2.6  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*

5.2.7  Escaping through a window opening which is underwater, from a partially submerged helicopter (without operation of a push out window)*

5.2.8  Escaping through a window opening which is underwater, from a partially submerged helicopter (with operation of a push out window)*

5.2.9  Escaping through a window opening which is underwater, from a capsized helicopter (without operation of a push out window)*

5.2.10 Inflation of an aviation lifejacket, deployment of a spray visor and carrying out in-water procedures (including individual and group survival techniques) – swimming, HELP, towing, chain, huddle and circle*

5.2.11 Boarding of an aviation liferaft from the water*

5.2.12 Being rescued by one of the recognised methods available offshore*

*Note 1: CA-EBS equipment must not be worn during exercises 5.2.6 thru 5.2.12

Note 2: In addition to explanations provided by training staff, demonstrations for HUET Exercises 5.2.6 to 5.2.9 must be provided using video footage
**ELEMENT 5.3** Additional CA-EBS Training (In-Water)

**Note 1:** Delegates must complete Element 5.3 unless they are unable to meet the additional medical requirements stated in Section D.3, items d), e) and f). Delegates **must not** participate in the practical exercises contained in Element 5.3 if they are unable to meet the additional medical requirements stated in Section D.3, items d), e) and f). Training Centres must retain records of delegates who are unable to participate in these exercises.

**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 5.3 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.

Following explanations and demonstrations by training staff: delegates to **practice and demonstrate**:

5.3.1 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)

5.3.2 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)

5.3.3 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)

5.3.4 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)

5.3.5 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)

5.3.6 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 6  Firefighting and Self Rescue

ELEMENT 6.1  Basic Firefighting and Self-Rescue Techniques

Following explanations and demonstration by training staff: delegates to practice and demonstrate:

6.1.1  Raising the alarm on discovery of a fire
6.1.2  The operation of hand held portable fire extinguishers in extinguishing Class A or Class B fires. (see Note 2 below)
6.1.3  Self-rescue techniques with a smoke hood or partial blindfold from areas where delegate visibility is reduced
6.1.4  Self-rescue techniques with a smoke hood from areas where delegate visibility is completely obscured*
6.1.5  Small group escape techniques with a smoke hood from areas where delegate visibility is completely obscured*, concluding with a muster exercise

*This may be achieved by conducting exercises in darkness or by using “blacked out” smoke hoods or partial blindfolds.
Note: Smoke hoods to be used in cosmetic smoke only.

NOTES Module 6:

(1)  The OPITO standard will be satisfied when each delegate practises the operation and use of each of the following types of fire extinguisher:
   (a)  Water or foam
   (b)  CO₂
   (c)  Dry chemical

(2)  Although class A and B fuels must be used for demonstration fires by staff, LPG simulation may be used for delegate practise exercises.

(3)  Training Staff to explain and demonstrate the operation of small bore fire hose reels, fire blankets and their use against actual Class A and Class B fires as appropriate if sufficient time is available.
MODULE 7 Emergency First Aid

ELEMENT 7.1 Emergency First Aid Techniques

Note: The delivery of this module must concentrate on enhancing the learning gained during the previous BOSIET/FOET.

Training staff to explain:

7.1.1 First aid arrangements
7.1.2 Types of injuries, to include:
   (a) Bleeding
   (b) Burns
   (c) Chemical contact

7.1.3 Prioritising Actions
7.1.4 Immediate first aid actions prior to the arrival of the medic/first-aider, to include:
   (a) Assessing the situation – do not put yourself (or others) in danger.
   (b) Making the area safe.
   (c) Assess all casualties and attend to any unconscious casualties.
   (d) Send for help as soon as possible.

Training staff to explain and demonstrate:

7.1.5 Raising the alarm.
7.1.6 Assessing the situation
7.1.7 Checking the area is safe
7.1.8 Checking airways, breathing and industry recognised first aid practice*
7.1.9 Putting casualty in the recovery position.

Delegates to practice and demonstrate:

7.1.10 Raising the alarm.
7.1.11 Assessing the situation.
7.1.12 Checking area is safe.
7.1.13 Industry recognised first aid practice*

* Industry recognised first aid practice – this may vary depending on first aid practice guidelines adopted in different countries/regions.
SECTION E  Resources for the BOSIET (with CA-EBS), HUET (with CA-EBS) and FOET (with CA-EBS)

In order to ensure that a training programme can be delivered successfully it is essential that appropriately qualified and experienced people are there to deliver and support the programme and that the appropriate facilities and equipment are in place.

E.1 Staff

Training staff must be:

(a) Trained in instructional/lecture techniques and/or have proven instructing/teaching experience.

(b) OPITO Centres must have an auditable training programme in place to ensure instructors keep up-to-date with relevant current offshore practices and changes. The programme must include at least two of the following: visits to offshore fixed or mobile installations, visits to heliports, visits to dry-docked rigs and meetings with relevant personnel in offshore oil and gas companies.

Note: In-water training staff delivering shallow water CA-EBS training must possess an appropriate and current certificate of fitness to dive.

Assessors must:

Hold an industry-recognised assessor’s qualification.

HUET Divers must:

(c) be in possession of a valid and appropriate Open Water SCUBA qualification, awarded by an independent recognised diving accreditation body.

(d) have successfully completed the OPITO HUET Diver training including the examination (refer to HUET Diver Training Programme document for specific details)

(e) be engaged in an ongoing further development and competence assessment programme which ensures that they are assessed as competent to carry out the activities required to carry out their job function on a regular basis including:

   i. participation in emergency drills and exercises conducted in accordance with company procedures (as a minimum, annually).

   ii. knowledge and understanding of current HUET equipment and current operating procedures in use by the Training Provider

Crane/Hoist Operators must:

(f) have successfully completed Original Equipment Manufacturer (OEM) training or industry recognised training for the lifting operations of the HUET

(g) have successfully completed OPITO HUET Diver theory training including the theory examination (refer to HUET Diver Training Programme document for specific details)

(h) have successfully participated in and demonstrated competence in all modes of HUET operation (minimum of 10 individual HUET sessions as a trainee HUET
Operator under supervision) and participated in relevant HUET maintenance activities

(i) have participated in all emergency drills for HUET exercises as per risk assessments (as a trainee HUET Operator under supervision)

(j) be formally appointed as a HUET Operator based on completion of requirements f-i above

(k) be engaged in an ongoing further development and competence assessment programme which ensures that they are assessed as competent to carry out the activities required to carry out their job function on a regular basis including:

i. participation in emergency drills and exercises conducted in accordance with company procedures (as a minimum, annually).

ii. knowledge and understanding of current HUET equipment and current operating procedures in use by the Training Provider

**Pool Safety Personnel** must:

(l) Be trained in and possess sufficient and relevant experience in dealing with in-water emergencies

(m) Hold a recognised Pool Safety Lifeguard qualification

**Medical Emergency Response (MER) Staff**

Training Providers delivering BOSIET (with CA-EBS), HUET (with CA-EBS) and FOET (with CA-EBS) Standards must be able to ensure that they can meet clear and specific requirements relating to medical emergency response (MER) provision and that these requirements are exercised, recorded, maintained and audited.

Full details of the required MER requirements are detailed in the [OPITO Medical Emergency Response Requirements](#). The medical emergency response requirements set out in this document is based on a tiered time-based response. The document details expectations on maximum response times, minimum equipment levels and access to specified medical personnel and facilities in an event of a medical emergency. It also identifies roles, designations, responsibilities and competence of medical emergency response staff.

All staff must have the appropriate documented competences to conduct/assist with the element of training being undertaken.
### E.2 Trainer/Delegate Ratio

1. The ratio shown for theory sessions indicates the maximum number of delegates attending the course.
2. Other ratios indicate the maximum number of delegates to be supervised by an instructor at any one time during each activity.
3. Swimmers, weak swimmers and non-swimmers must be clearly identified during all pool exercises through the use of different coloured helmets.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Session</th>
<th>Ratio</th>
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<tr>
<td>Safety Induction</td>
<td>Theory</td>
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<tr>
<td>Helicopter Escape</td>
<td>Theory</td>
<td>1:16</td>
</tr>
<tr>
<td></td>
<td>Theory and Demonstration</td>
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<td>Dry Helicopter Escape Trainer</td>
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<tr>
<td></td>
<td>Helicopter Underwater Escape Trainer (HUET) (in pool)</td>
<td>1:4</td>
</tr>
</tbody>
</table>

As a minimum the HUET team must comprise of the following:

- 1 x Lead Instructor
- 1 x Crane/Hoist Operator/Dive Supervisor
- 2 x OPITO HUET divers
- Pool safety personnel

Note: A maximum of 2 designated weak/non-swimmer delegates are permitted for any HUET (in pool) exercise

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Additional CA-EBS Training (In-Water)</td>
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</tr>
</tbody>
</table>

As a minimum the CA-EBS training team must comprise of the following:

- 1 x Lead Instructor
- 1 x Dive Supervisor
- 2 x OPITO HUET divers
- Pool safety personnel

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

<table>
<thead>
<tr>
<th>Sea Survival</th>
<th>Theory</th>
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<td>TEMPSC (per craft)</td>
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<td></td>
<td>In-Water</td>
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</table>

As a minimum the Sea Survival team must comprise of the following:

- 1 Lead Instructor
- 2 (in water) pool safety personnel
E.3 Facilities

It is important that the full range of facilities are made available at the training centre to ensure delegates get the most out of their training. The following facilities criteria must be adhered to:

**Administration arrangements** appropriate for enrolment and certification of delegates and all aspects of the delivery of training in accordance with this standard.

**Theory training area(s)** so designed to enable each delegate to view, hear and participate fully in the subject matter being taught.

**Practical training areas** so designed to enable each delegate to individually, or as part of a team, to view, hear and practise the following:

1. Dry evacuation into an aviation liferaft on water from a helicopter trainer.
2. Escape from a partially submerged helicopter trainer through an exit which is under water.
3. Escape from a capsized helicopter trainer and use of a lifejacket.
4. Evacuate from a helicopter trainer following an emergency dry landing.
5. Operation of emergency exits and push-out windows of a type currently found on helicopters operating offshore.
6. Donning of compressed air emergency breathing system equipment and an aviation lifejacket
7. Operation and use of compressed air emergency breathing system
8. Operation of an aviation liferaft.
9. The donning of a permanent buoyancy life jacket.
10. The use of a helicopter lifting device and winching to a simulated rescue aircraft.
11. The boarding of a marine life raft from the water
12. In-water procedures, including individual and group survival technique, followed by rescue by one of the recognised methods available offshore.
13. Musterling, boarding and strapping in as a TEMPSC passenger (the craft then to be lowered into water to float and be released).
14. The use of portable fire extinguishers on a range of fires of surface area 0.1 m$^2$ to 1.0 m$^2$ against the following:
   a. Class A fire
   b. Class B contained spill.
15. The donning and wearing of a smoke hood in an area which can be smoke logged using cosmetic smoke.
16. Dedicated concreted area with adequate drainage to allow the delivery of all firefighting exercises for 16 delegates, instructors and support staff.
**Medical Emergency Response (MER) Requirements**

Training Providers delivering BOSIET (with CA-EBS), HUET (with CA-EBS) and FOET (with CA-EBS) Standards must be able to ensure that they can meet clear and specific requirements relating to medical emergency response (MER) provision and that these requirements are exercised, recorded, maintained and audited.

Full details of the required MER requirements are specified in the OPITO Medical Emergency Response Requirements. The medical emergency response requirements set out in this document is based on a tiered time-based response. The document details expectations on maximum response times, minimum equipment levels and access to specified medical personnel and facilities in an event of a medical emergency. It also identifies roles, designations, responsibilities and competence of medical emergency response staff.

The Training Provider must also establish and document clear communication guidelines between poolside and in-water personnel for all practical exercises and emergencies.

**CA-EBS Cleaning Facilities**

The Training Centre must have stringent hygienic CA-EBS equipment cleaning facilities.

**Facilities Notes:**

A fresh water pool with appropriate water treatment facilities is required for conducting all HUET and in-water exercises.

All facilities must be maintained and where appropriate, inspected and tested in accordance with current standards/legislation and manufacturers’ recommendations.

Risk assessments must be conducted and documented for all training facilities and equipment.
E.4 Equipment

The following equipment, of a type in use regionally on offshore oil and gas installations and helicopters involved in offshore operations, is required to meet the needs of the training programme.

(1) Aviation and marine lifejackets
(2) Cosmetic smoke generator
(3) Sufficient Compressed Air Emergency Breathing System (CA-EBS) Equipment or life jackets/transit suits with integrated CA-EBS.
(4) O2
(5) Method of charging compressed air cylinders
(6) Fire blanket
(7) First Aid Equipment
(8) Fuels and props (Class A and B fires)
(9) Helicopter rescue device (of a type used regionally offshore)
(10) Helicopter Underwater Escape Trainer(s) c/w removable exits
(11) Hose reel
(12) Health and safety figures on accident statistics
(13) Installation emergency organisation chart (examples)
(14) Location aids suitable for training purposes (e.g. dummy radio beacons and pyrotechnics)
(15) Mannequins and cleaning equipment
(16) Marine liferaft and ancillary equipment
(17) Permit to Work (examples)
(18) Personal Protective Equipment (PPE)
(19) Portable Extinguishers – water/foam, CO2 and dry chemical
(20) Rescue equipment
(21) Aviation liferaft and ancillary equipment
(22) Smoke hoods (plus a different type of smoke hood for demonstration purposes)
(23) Products on task-based risk assessment, lifting and mechanical handling, PRfS, and Permit to Work
(24) STOP/START/TOFS information
(25) Marine survival suit (also known as immersion suit or abandonment suit). This suit is insulated.
(26) An aviation transit suit: to include actual transit suits used in region/area for helicopter transfers
(27) Pool training suits
(28) TEMPSC and ancillary equipment
(29) One actual Tertiary Escape System and video/slide presentation of others
(30) Torches
(31) Video – Pyrotechnics
(32) Video – Hypothermia
(33) Winch for use during simulated helicopter rescue
(34) Sufficient diving equipment for HUET safety divers
(35) PLB Video – where applicable
Compressed Air Emergency Breathing System

Note:

(1) Particular attention must be paid to the hygienic maintenance of CA-EBS equipment. CA-EBS units (not cylinders) must be individually numbered to facilitate traceability.

Aviation Transit Suits

(1) Aviation transit suits for demonstration purposes must be of a type typically used in the region/area of operations.
(2) Suits used throughout pool exercises (pool training suits) do not have to be of a type specified in the item above; they must however, as a minimum, conform to the following:

   (a) Be water-tight
   (b) Have a zip configuration for entry into the suit
   (c) Have latex or neoprene wrist and neck seals.

TEMPSC Requirements

(a) Davit arrangement, complete with rubber buffers to enable delegates to enter the TEMPSC without it moving.
(b) Centrifugal brake arrangement to enable the TEMPSC to be lowered without power; activation of this system is undertaken from within the TEMPSC by the coxswain/instructor.
(c) Electric winch for hoisting, complete with limit switches to prevent Davit/TEMPSC damage.

TEMPSC Lowering Range

Bund wall and pool training areas:
Minimum Keel-to-water height is two meters
Maximum Keel-to-water height is three meters

Tidal areas
The TEMPSC lowering height to be a maximum of three metres above the highest recorded tidal mark.

Note: In both cases the water into which the TEMPSC is lowered must be a sufficient depth to enable the TEMPSC to float and to allow the hook(s) to open and allow release of the TEMPSC.
HUET Requirements

Helicopter Underwater Escape Trainers (HUETs) used for OPITO training must meet the following criteria.

The HUET Trainer:

(a) Must have at least four seats for delegates and sufficient space for minimum of one instructor
(b) Must have a push-out window exit available for each delegate.
(c) Must have push-out window exits of a similar size to those found on the common offshore helicopters.
(d) Must be able to be lowered on to the surface of the water and then subsequently lowered below the water in an upright position.
(e) Structure (with the seats) must be able to rotate a minimum of 180° in a controlled fashion.
(f) Must have a means of stopping the rotation in an emergency i.e. a brake.
(g) Must have the capability of being rapidly retrieved to the surface in an emergency and if necessary to the side of the pool with the delegates inside.
(h) Must have realistic seating arrangement as found in offshore helicopters, and include seatbelt/harness fastenings and a system for releasing delegates in an emergency should the buckle fail to open.
(i) Must have a nominated exit (hinged, sliding or jettisonable) with the operating mechanism of a type similar to that found on offshore helicopters.

Note: One HUET can be used for both wet and dry exercises. Alternatively, two helicopter trainers can be used.

All equipment must be maintained, and where appropriate, inspected and tested in accordance with current standards/legislation, guidance and manufacturers recommendations.
SECTION F  Administration and Certification

F.1  Joining Instructions

All joining instructions must contain information which indicates that certain aspects of the course are of a physical nature and contain potentially stressful elements.

Prior to each course commencing, delegates must sign a declaration indicating they have read and understood a written statement regarding the physical and potentially stressful nature of the programme, and the need for delegates to be in good health.

F.2  Periodicity

The maximum interval between the successful completion of BOSIET (with CA-EBS) training and subsequent completion of FOET (with CA-EBS) training is 4 years. The HUET (with CA-EBS) certificate is also valid for 4 years.

F.3  Certification

Training Centres are responsible for issuing a certificate direct to the delegate completing the programme and to the sponsoring company (when required). Each certificate must indicate that the delegate has been assessed against and met the learning outcomes and must contain the following:

(a) Training Centre name  
(b) Full OPITO course title stating that it is OPITO-approved  
(c) OPITO registration code  
(d) Delegate's name  
(e) Course dates  
(f) Expiry date (Four years minus one day following the date that the delegate successfully completes the course)  
(g) Unique Certificate Number (UCN) – Refer to OPITO UCN Guidance doc. for details  
(h) Training Centre Signatory.

Please note: If the expiry date on the delegates previous certificate is within 3 months of the course enrolment date then the date of the new certificate should correspond with the expiry date of the existing/previous certificate unless stated otherwise by the Duty Holder or Asset Owner or Operator.
F.4 Course Administration

Each delegate attending any OPITO-approved programme must be registered with the Central Register (CR) operated by OPITO. Registration must be made by the training centre to OPITO within one week following the course.

OPITO confirms that information on the registration form will be contained in a computerised register which will be available to employers, prospective employers and training providers in the oil and gas industry to verify training records. At all times, use of this data will be strictly in accordance with principles laid down in data protection legislation.
### Glossary of Terms and Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
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<td>ABC</td>
<td>Airway Breathing and CPR</td>
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<tr>
<td>ALARP</td>
<td>As low as reasonably practicable</td>
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<tr>
<td>BOSIET</td>
<td>Basic Offshore Safety Induction and Emergency Training</td>
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<tr>
<td>BOP</td>
<td>Blowout Preventer</td>
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<tr>
<td>CO2</td>
<td>Carbon Dioxide</td>
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<tr>
<td>CPR</td>
<td>Cardiopulmonary Resuscitation</td>
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<tr>
<td>CR</td>
<td>Central Register</td>
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<tr>
<td>CA-EBS</td>
<td>Compressed Air Emergency Breathing System</td>
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<td>FPSO</td>
<td>Floating Production Storage and Offloading</td>
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<tr>
<td>FOET</td>
<td>Further Offshore Emergency Training</td>
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<tr>
<td>FRC</td>
<td>Fast Rescue Craft</td>
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<td>HELP</td>
<td>Heat Escape Lessening Position</td>
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<td>HUET</td>
<td>Helicopter Underwater Escape Trainer</td>
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<td>H2S</td>
<td>Hydrogen Sulphide</td>
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<tr>
<td>LPG</td>
<td>Liquid petroleum gas</td>
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<tr>
<td>MRRD</td>
<td>Mechanical Rescue and Recovery Device</td>
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<td>MSDS</td>
<td>Material Safety Data Sheet</td>
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<td>OIM</td>
<td>Offshore Installation Manager</td>
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<tr>
<td>PLB</td>
<td>Personal Locator Beacon</td>
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<tr>
<td>POB</td>
<td>Personnel on Board</td>
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<tr>
<td>PRfS</td>
<td>Personal Responsibility for Safety</td>
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<td>PPE</td>
<td>Personal Protective Equipment</td>
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<td>PTW</td>
<td>Permit to Work</td>
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<tr>
<td>SAR</td>
<td>Search and Rescue</td>
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<tr>
<td>SMS</td>
<td>Safety Management System</td>
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<tr>
<td>TEMPSC</td>
<td>Totally Enclosed Motor Propelled Survival Craft</td>
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<td>TOFS</td>
<td>Time Out for Safety</td>
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<tr>
<td>UCN</td>
<td>Unique Certificate Number</td>
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<tr>
<td>UKCS</td>
<td>United Kingdom Continental Shelf</td>
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Appendix 1 OPITO Information

The topics listed below are to be delivered as part of the introduction to this course and included in the lesson plans/instructor guides/exercise plans. Additional introduction topics must include as a minimum, training centre layout and alarms, emergency actions, first aid and domestic arrangements.

Mandatory OPITO Information:

(a) Medical Fitness
(b) Certification Periods
(c) CR/Vantage (provided by OPITO)
(d) OPITO Customer Service Statement (provided by OPITO)
(e) The roles of employers and training providers (provided by OPITO)
(f) What is OPITO’s role in industry? (provided by OPITO)
(g) Current Global Network of training providers (provided by OPITO)
(h) Emergency Response Framework (provided by OPITO – applicable for ER Training Providers)
(i) OPITO DVD (BOSIET/BOSIET(with CA-EBS)/TBOSIET only) provided by OPITO