

OPITO Helideck Standards Training Facility & Equipment  
Technical Specification Document [Rev 0, Amendment 3]



OPITO Helideck  
Standards  
Training Facility & Equipment  
Technical Specification

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Record of Changes to Document						
Revision & Amendments			Agreed by	Checked	Approved	
Revision 0			March 2013	OPITO	G. Gall	P. Lammiman
No.	Amendment & Date	Section	Amended by	Checked by	Approved by	
1	<p>Revision 0, Amendment 1</p> <p>Amended wording in Introduction section for better clarity and guidance.</p> <p>Added note in 'Helideck Structure' section to explain items 5(d) and 6 are additional requirements if HERTL, HLO Further, HERTM and HDA Further are delivered.</p> <p>Reworded Section 2 'Helideck for HLO and HDA Initial Training Programmes' for better clarity and guidance.</p> <p>Added Note regarding Class B fires in Section 4 'Firefighting'.</p>	Introduction, Helideck Structure, Helideck for HLO and HDA initial Training, Firefighting	M.Foo	OPITO S&A	P.Lammiman	
2	<p>Change of titles for Further Training</p> <p>Rev 0, Amendment 2</p> <p>27-Feb 2015</p>	All	SM	GTC	GTD	
3	<p>Change of document title and change of standards titles to mirror revised Helideck Training &amp; Competence Framework</p> <p>16-Nov-2017</p>	1,4,5	Standards Coordinator	Quality Assurance Manager	Director (Standards & QA)	

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## Introduction

### Purpose

The purpose of this technical specification document is to provide a minimum facility and equipment specification for OPITO-approved training providers and training providers wishing to gain OPITO-approval to deliver training to the following OPITO standards:

1. Helideck Operations Initial Training
2. Helideck Emergency Response Team Member (HERTM) Training
3. HERTM Further Training
4. Helideck Emergency Response Team Leader (HERTL) Training
5. HERTL Further Training

Training Centres can deliver the Helideck Training Programmes using a helideck located inside or outside, the helideck and heli-simulator must comply with the specification contained within this document.

Specification covers the following technical areas:

1. Helideck Structure
2. Helideck for Helideck Operations Initial Training Programme
3. Helicopter Fire and ER simulator
4. Firefighting Capability
5. Rescue Equipment and PPE.

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## 1 Helideck Structure

1. Helideck elevation from ground level must be no less than 2.5m from ground level.
2. The helideck must be typical of a type used offshore i.e. have stair-access wide enough for heli-teams to manoeuvre fire and rescue equipment to and from the helideck.
3. Helideck Area: Minimum 'D Value' of the helideck will be 12m.  
D value:  
*The D value is the largest overall dimension of the helicopter when rotors are turning. This dimension will normally be measured from the most forward position of the main rotor tip path plane to the most rearward position of the tail rotor tip path plane.*
4. The structure must contain at least two heli-wells
5. The Heli-wells must:
  - a. Be of sufficient depth below the helideck so that helideck team personnel can take cover from flying debris in the event of a helicopter crash on deck.
  - b. Have sufficient space to allow at least two people to move freely
  - c. Have a safety rail around the heli-well
  - d. \*\*House a fully-operational \*fixed fire monitor typical of the type used on offshore helidecks.
  - e. Be accessible by grated walkways and /or stairs
  - f. Have stair (with handrails) access to the helideck.
6. \*\*A facility on helideck to accommodate [Class B hydrocarbon spill fires](#).
7. Wind sock.

\*Foam-making equipment should be of adequate performance and be suitably located to ensure an effective application of foam to any part of the helideck landing area irrespective of the wind strength/direction or accident location.

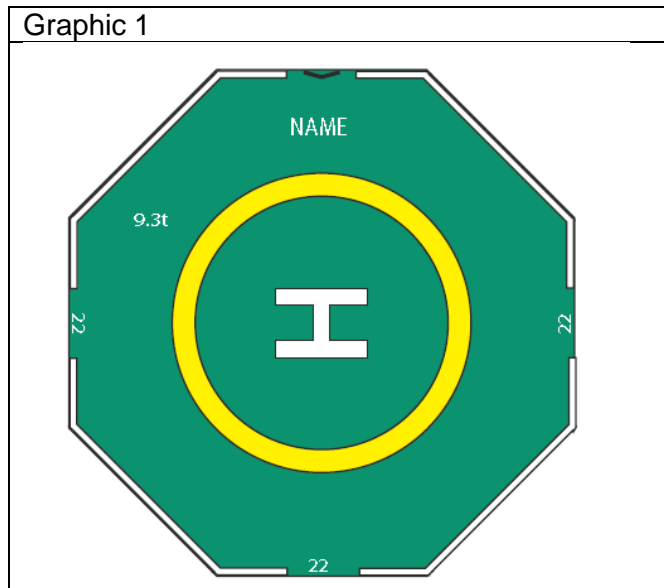
\*\*5(d) and 6 are additional requirements for heli-standards containing firefighting practical exercises (HERTM, HERTM Further, HERTL and HERTL Further Training).

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## 2 Helideck for Helideck Operations Initial Training Programmes

1. **Helideck Structure** – as per Section 1
2. **Helideck Markings:**

Makings must be typical of marking used offshore helidecks – see example Graphic-1 below.



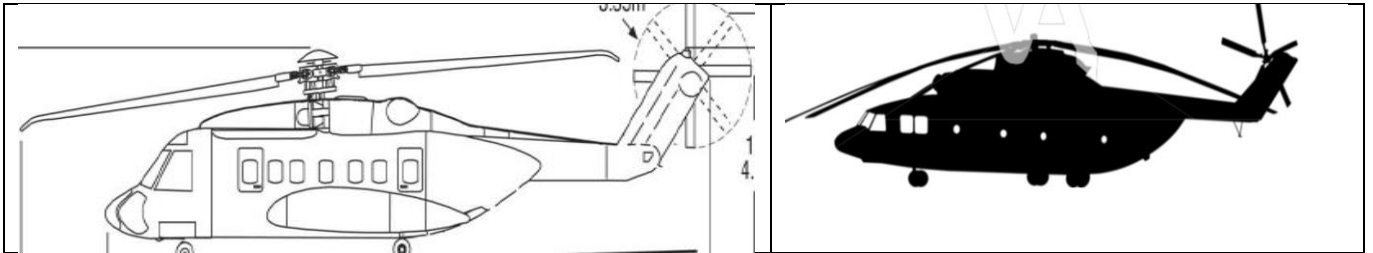
### 3. **Helideck Simulator:**

Internal configuration:

1. The cockpit (basic simulation of helicopter cockpit)
2. A realistic baggage and freight compartment, including door or hatch and handle operational arrangements as found on offshore helicopters
3. Passenger seating arrangement as found in offshore helicopters, to simulate seating arrangements for passengers

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## 3 Helicopter Fire & ER Simulator



### Helicopter Simulator Shape and Size

Although the fire and emergency response simulator doesn't have to be an exact size and shape of a real helicopter for transporting passengers offshore, it must have a shape of a helicopter and reasonably realistic size.

The heli-simulator which must accommodate the following:

1. Search , rescue and retrieval of passenger casualty simulators by the emergency response team using breathing apparatus
2. Facility for a Class 'A' fire inside heli-simulator
3. Passenger seating
4. Capable of being smoke-logged (Cosmetic smoke can be used during casualty extraction)
5. Window arrangement typical of a type used on an offshore transport helicopter
6. Helicopter baggage hold
7. Capability/arrangement for emergency response team to enter the heli-simulator for helicopter crash on deck exercise i.e.fuselage top entry.
8. Facility to enable simulation from an overturned helicopter.
9. Facility to accommodate the extinguishing of a simulated engine fire by a CO2 extended applicator.

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## 4 Firefighting

### 1. Fire Classes

	Fire Scenario	Fire Classification
1	*Fuel spill fire	Class B- flammable liquid
2	Leaking fuel fire	Class B- flammable liquid
3	Internal fires	Class A
4	Engine Fire	Class B-flammable liquid OR Class C-flammable gas

\*Flammable liquid that has similar combustion characteristics of aviation fuel.

Note:\*Class B fires: For environmental purposes, smoke suppression or clean-burn systems are acceptable for reducing smoke during Class B fire exercises.

### 2. Firefighting Equipment

- a. Firewater Hydrants – for attaching fire hoses
- b. Hand adjustable foam-producing fire monitors capable of cross-arcing over the helideck
- c. Mobile foam and dry powder CO2 cart/trolley
- d. Portable extinguishers:
  - i. Water
  - ii. Dry powder
  - iii. Foam
  - iv. CO2
- e. Fire hoses
- f. Variety of branches: aspirated and non-aspirated
- g. Foam inductors
- h. CO2 extended applicator for extinguishing engine fires
- i. Water fire hose reel
- j. Fire-lighting equipment for lighting fires.

### 3. Firewater Reservoir Tank/Vessel

Firewater reservoir of sufficient capacity to enable all firefighting exercises to be completed.

### 4. Firewater Pumping Capability

- a. Firewater pumping capacity adequate to supply practical fire exercise areas at full training capacity.
- b. Firewater pumping system back-up capability to supply adequate pressurised water to the exercise area in the event of the main pump/s failure.
- c. Adequate controls and safety arrangements to shut off fuel to fires in event of fire water failure.
- d. Low firewater pressure alarm.



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## 5 Rescue Equipment and PPE



### 1. Helicopter Crash Rescue equipment

The provision of at least one set of helicopter crash rescue equipment is required in order to support helideck firefighting and rescue activities.

The equipment must be easily accessed by the helideck / ER team, kept in complete and serviceable condition, and be ready for use in the vicinity of the helideck.

The equipment stored in the Crash Box should cover the items recommended in applicable documentation, such as CAP437.

### 2. Breathing Apparatus

### 3. First Aid equipment

### 4. Casualty simulator

### 5. Personal Protective equipment (PPE)

Delegate PPE must be typical of types used by offshore helideck emergency response teams.

### 6. Resuscitation equipment