

3 Mandatory Safety Training for All Petroleum Installations

The isolated nature of offshore installations create safety and emergency preparedness training needs to a much greater degree than would apply to a similar industrial setting onshore.

This section provides a brief description of the mandatory safety and emergency preparedness training required of individuals who work on or visit installations operating in Canada's offshore areas.

The training programs described herein have been categorized as follows:

- *Personal Safety Training* which provide individuals with a basic level of training to prepare them to react effectively to protect themselves and assist others in an emergency situation;
- *Technical Safety Training* which ensure personnel assigned responsibility for the integrity and safe operation of the well and the installation are properly trained and competent in their area of responsibility; and
- *Emergency Team Training* which provide designated personnel with the knowledge and skills necessary to perform together as an effective emergency and rescue response team.

3.1 Personal Safety Training

- Offshore Survival Introduction (OSI)
- Basic Survival Training (BST)
- Basic Survival Training – Recurrent (BST-R)
- Hydrogen Sulphide (H₂S)
- Workplace Hazardous Materials Information System (WHMIS)
- Transportation of Dangerous Goods (TDG)
- Basic First Aid
- Advanced First Aid
- Cardiopulmonary Resuscitation (CPR) – Level C

3.1.1 Offshore Survival Introduction (OSI)

Course Objectives

To provide participants with an awareness of the hazards associated with the marine environment, an understanding of their responsibilities during an offshore emergency and the ability to care for themselves and others in a survival situation. Persons completing this course must also receive the "Helicopter/Vessel Safety Briefing" and the "Installation Safety Induction" referred to in sections 6.2.2 and 6.2.3 and must each be closely supervised for the duration of their stay offshore.

Applies To

All visitors to an offshore installation who have not completed a course in *Basic Survival Training (BST)*, and who will not spend more than seven (7) days offshore during a 12-month period.

Course Duration

One (1) day

Prerequisites

Medical clearance from a recognized physician within 12 months of the course date.

Renewal

Three (3) years

Course Content

- Offshore hazards, emergency response and installation abandonment
- Evacuation systems, lifesaving appliances and personal flotation devices
- Practice pool exercises
- Survival theory, survival pattern and distress signals
- Rescue and rescue equipment
- Helicopter safety and emergency procedures
- Helicopter Underwater Escape Trainer (HUET) exercises

Recognized Certificates

- Offshore Survival Introduction Certificate issued by the Marine Institute, St. John's, Newfoundland and Labrador
- Offshore Survival Introduction Certificate issued by Survival Systems Ltd., Dartmouth, Nova Scotia

Note: While most international basic survival courses are not acceptable for regular rotation personnel they may be acceptable for visitors, i.e. personnel who spend less than seven days offshore during any twelve month period. Generally, if an operator can verify and document that a visitor has a current basic survival training (BST) certificate that includes a HUET module that is recognized as valid and current by a major national industry association, then the visitor need not complete the OSI course. We caution that HUET is not required training in some countries, e.g. Denmark, so individuals who have certificates from such countries, must also have specific proof of having completed a HUET course.

3.1.2 Basic Survival Training (BST)

Course Objectives

To provide personnel with a basic understanding of the hazards associated with working in an offshore environment, the knowledge and skills necessary to react effectively to offshore emergencies, and the ability to care for themselves and others in a survival situation.

Applies To

The entire complement of an offshore installation, including all permanently or regularly assigned members of the crew, third party contractors and shore based personnel whose duties are such that they have occasion to travel offshore.

Note: This course must be completed prior to an employee's first tour of duty offshore. However, because of the intermittent nature of employment and course scheduling, operators may occasionally have to avail of the exemption procedure outlined in Chapter 7 of this document. Persons so exempt must receive the "Helicopter/Vessel Safety Briefing" and the "Installation Safety Induction" referred to in section 6.2.2 and 6.2.3, and must each be closely supervised for the duration of their tour of duty offshore.

Course Duration

Five (5) days

Prerequisites

Medical clearance from a recognized physician within 12 months of the course date or alternative clearance as required by the training institution.

Renewal

Three (3) years

Course Content

- Hazards and emergencies associated with working offshore
- Emergency preparedness and response
- Prevention, detection and control of fire
- Self-contained breathing apparatus (SCBA)
- Personal flotation devices
- Installation Abandonment
- Inflatable life rafts
- Totally enclosed motor-propelled survival craft (TEMPSC)
- Enemies of survival
- Search and Rescue

- Practical sea exercises
- Helicopter safety and emergency procedures
- Helicopter Underwater Escape Trainer (HUET) exercises
- Personnel Transfer Exercises
- Demonstration of emergency personal descent devices
- Demonstration and use of smoke hoods

Recognized Certificates

- Basic Survival Training (BST) Certificate issued by the Marine Institute, St. John's, Newfoundland and Labrador
- Basic Survival Training (BST) Certificate issued by Survival Systems Ltd., Dartmouth, Nova Scotia
- Basic Offshore Safety induction and Emergency Training and European Module Certificate issued by OPITO-approved provider issued prior to November 1, 2007 or with a certificate issued after this date plus completion of the BST-R
- Basic Safety and Emergency Preparedness Training and Helicopter Evacuation Certificate issued by OLF-approved provider in Norway

Note: Certificates issued for the successful completion of the OPITO- and OLF-approved courses will be considered valid for a period of three (3) years from its date of issue.

3.1.3 Basic Survival Training – Recurrent (BST-R)

Course Objectives

To provide for continued proficiency in the use of safety, survival and rescue equipment and techniques, and to update individuals with respect to advancements in equipment technology and procedures since their previous training.

Applies To

Personnel who are required to hold a valid Certificate in Basic Survival Training (BST), and who wish to maintain the validity of their Certificate.

Note: Individuals who do not complete BST-R prior to the expiration of their BST Certificate are required to repeat the five (5) day course. However, because of the intermittent nature of employment and course scheduling, a grace period may be allowed by the energy authority upon written application by the operator.

Course Duration

Two (2) days.

Prerequisites

- Medical clearance from a recognized physician within 12 months of the course date
- A valid Basic Survival Training (BST) Certificate, or equivalent

Renewal

Three (3) years.

Course Content

- Discussion of offshore hazards
- Personal lifesaving equipment
- Installation abandonment, survival and rescue equipment and techniques
- Practical sea exercises
- Safety and emergency procedures associated with helicopter transport
- Helicopter Underwater Escape Trainer (HUET) exercises

Recognized Certificates

- Basic Survival Training (Recurrent) (BST-R) Certificate issued by the Marine Institute, St. John's, Newfoundland and Labrador
- Basic Survival Training (Recurrent) (BST-R) issued by Survival Systems Ltd., Dartmouth, Nova Scotia

Note: For personnel entering the jurisdiction for the first time an OLF approved survival refresher course with proof of having completed a HUET module will be accepted or an OPITO survival refresher course plus a European upgrade module will be accepted if issued prior to November 1, 2007. (A certificate from an OPITO approved training provider issued after November 1, 2007 will be accepted on completion of the BST-R.)

3.1.4 Hydrogen Sulphide (H₂S)

Course Objectives

To provide personnel with an awareness of the dangers associated with hydrogen sulphide (H₂S) gas and the appropriate response measures to be taken should it be encountered.

Applies To

All personnel traveling to an installation, except visitors.

Note: Where the operator of a production installation can demonstrate that hydrogen sulphide is not present in the reservoir, one time in-house