

TPTI APPROVED STANDARDS

**Basic Onshore Safety Training
(BOnST)**

and

**Further Onshore Training
(FOnT)**

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Any amendments made to this standard by TPTI will be recorded above.

AMENDMENTS				
AMENDMENT	PAGES	CHANGES MADE BY:	CHECKED BY:	APPROVED BY:
Glossary removed unrelated abbreviation Added GHS and SDS in to the glossary 08-Jun-2017	5			
A1.,B1. Change the module name from Firefighting and Self Rescue to Basic Firefighting and Self Rescue 08-Jun-2017	7,17			
A3.Learning outcome on first paragraph change from principle of emergency response on onshore installations to <u>principle of emergency subject to change depends on site facilities.</u> 08-Jun-2017	8			
A3.,B3. Safety Induction topic 3 change from How onshore safety is regulated to Onshore Basic Safety Awareness 08-Jun-2017	8,18			
A3.,B3. Safety Induction removed topics number 4, 5, 6 and 9 08-Jun-2017	8,18			
A3. Basic First Aid added first paragraph <u>The program is based on International protocols in first aid. The CPR protocols are in accordance with Thai Red Cross Guidelines for Adult Basic Life Support.</u> 08-Jun-2017	9			
A3.,A4.,B3.,B4. Basic First Aid Topic B changed from Raising the alarm to Type of alarm and Principle of Raising the alarm. Topic E changed from Immediate first aid actions including ABC to Immediate first aid actions including CPR Topic G changed from how to carry patients with the stretcher to How to carry patients with and without the stretcher Removed topic H how to use SCBA 08-Jun-2017	9,13, 18, 23			

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AMENDMENTS				
AMENDMENT	PAGES	CHANGES MADE BY:	CHECKED BY:	APPROVED BY:
A3.,B3 Basic First Aid added topics Topic h Recognize the need for CPR Topic i Perform CPR on an adult Topic j Use of AED (Automated external defibrillation) Topic k Understand the principles of airway obstruction Topic l Perform immediate first aid for a choking victim 08-Jun-2017	9,18			
A4.,B4 Safety induction 2.Onshore Hazzard Added the topic of GHS and SDS under the chemical hazard 08-Jun-2017	11,21			
A4.,B4 Safety Induction Removed 5. Regulating Onshore Safety (to be added in GCP) 08-Jun-2017	-			

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GLOSSARY

ABC	Airway Breathing Circulation
AED	Automated External Defibrillation
ALARP	As low as reasonably practical
ACOP	Approved Code of Practice
BOnST	Basic Onshore Safety Training
COSHH	Control of Substances Hazardous to Health
CO2	Carbon Dioxide
CPR	Cardio Pulmonary Resuscitation
CR	Central Register
DMF	Department of Minerals Fuels
FOnT	Further Onshore Training
GHS	Global Harmonizing System
HELP	Heat Escape Lessening Position
HSE	Health & Safety Executive
HS&E	Health, safety and environment
H2S	Hydrogen Sulphide
MHSWR	Management of Health & Safety at Work Regulations
MSDS	Material Safety Data Sheet
OIM	Onshore Installation Manager
OPITO	Standards & Approvals function of Cogent Sector Services Limited (sets international standards)
PRfS	Personal responsibility for safety
PPE	Personal Protective Equipment
PTW	Permit to Work
SDS	Safety Data Sheet
SMS	Safety Management System

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BASIC ONSHORE SAFETY TRAINING

Introduction

This standard was developed by TPTI in conjunction with a workgroup representing the interests of the onshore oil & gas industry in Thailand

The rationale behind this development was the need for a “fit for purpose” standard to meet the requirements for basic onshore safety training in Thailand. The key objective was to establish a basic competency based training standard, appropriate for Thailand.

This document introduces and describes the core competency and safety training requirements relative to the onshore Oil & Gas Industry in Thailand. It is envisaged that by achieving the core competence requirements within the TPTI structure of approved training providers and central recording system, personnel will only require additional training when operating outside of Thailand and no duplication of previous training will occur.

It is recognised that a major objective is to prevent incidents occurring and if they do occur to be able to respond effectively to them. The training establishment should recognise that this is only part of a broader training programme. There will also be company and installation specific inductions and emergency response training of which most will be conducted onshore on a regular basis as onshore drills and exercises.

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Basic Onshore Safety Training

The responsibility for delivering and assessing this programme rests with TPTI Approved Training Providers.

A.3 Learning Outcomes

During the BOnST programme delegates will gain a basic level of understanding and an awareness of safety and principle of emergency response subject to change depend on site facilities

They will be required to demonstrate their skills and the level of knowledge and understanding of the following key areas.

SAFETY INDUCTION

**Delegates will explain/identify:
(testing knowledge)**

1. Onshore hazards, their control and consequences.
2. Waste disposal/environmental awareness.
3. Basic safety awareness
4. PPE requirements.
5. Procedure for reporting incidents, accidents and near misses.

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Basic Onshore Safety Training

A.3 Learning Outcomes (continued)

BASIC FIRST AID

The program is based on International protocols in first aid. The CPR protocols are in accordance with Thai Red Cross Guidelines for Adult Basic Life Support.

**Delegates will demonstrate practically:
(testing knowledge)**

Give an explanation and demonstration of:

- a. First aid overview.
- b. Type of alarm and Principle of Raising the alarm.
- c. Appropriate behaviour at the first aid scene.
- d. Immediate first aid actions suitable for use prior to the arrival of the medic / first-aider.
- e. How to carry patients with and without the stretcher

Delegates to demonstrate and practise:

- f. Immediate first aid actions including CPR
- g. How to carry patients with and without the stretcher.
- h. Recognize the need for CPR
- i. Perform CPR on an adult
- j. Use of AED (Automated external defibrillation)
- k. Understand the principles of airway obstruction
- l. Perform immediate first aid for a choking victim

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Basic Onshore Safety Training

A.3 Learning Outcomes (continued)

FIREFIGHTING AND SELF RESCUE

**Delegates will demonstrate practically:
(testing skills and knowledge)**

1. Use of appropriate hand held portable fire extinguishers.
2. Self-rescue techniques with a smoke hood from areas where visibility is reduced due to smoke*.
3. Self-rescue techniques with a smoke hood from areas where visibility is completely obscured**.
4. Small group escape techniques with a smoke hood from areas where visibility is completely obscured.

* smoke hoods to be used in cosmetic smoke only

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

Basic Onshore Safety Training

A.4 Training Programme

The training programme outlined below will assist delegates to meet the stated training outcomes.

In order to make efficient use of time and ensure effective learning, the three phases of explanation, demonstration and practice should be integrated wherever practicable.

Full use should be made of visual/audio-visual aid and course handout materials.

Practical exercises should be designed and delivered solely to meet these standards, and must not place on delegates any physical or mental demands other than those required to meet the standard.

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Basic Onshore Safety Training

A.4 Training Programme (continued)

SAFETY INDUCTION

1. Industry Overview and Installation Overview

Give an overview of:

- a. Onshore oil and gas activities.
- b. Formation, finding and exploitation of oil and gas.
- c. Types of installations
 - drilling
 - production - oil and gas/gas
 - construction
 - accommodation
 - special vessels.
- d. The onshore environment.

2. Onshore Hazards

Give an explanation of:

Onshore hazards and comparative risk levels

e.g.

- pressure hazards
- motion hazards
- chemical hazards
 - GHS
 - SDS
- electrical hazards
- gravity hazards.

3. Managing Onshore Safety

Give an explanation of:

The multiple barriers model and systems in place to prevent hazards from contacting targets including:

- safe systems of work
- personal responsibility for safety
- safety observation programmes.

4. Controlling Onshore Hazards

Give an explanation of:

The hierarchy of control and how control measures are implemented onshore; discuss the consequences of failure to control the risks.

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Basic Onshore Safety Training

A.4 Training Programme (continued)

SAFETY INDUCTION (continued)

5. Living and Working Onshore

Give an explanation of:

Onshore routines:

reporting in
installation induction
cabin/laundry/bond
recreation /smoking
getting on with others

Working routines:

procedures
work authorisation
maintaining a safe workplace
personal protective equipment
waste disposal
the right to stop unsafe work

Give an explanation of:

Involvement in safety e.g.

- observation systems
- Permit to Work (PTW)
- toolbox talks
- safety meetings
- drills & exercises
- additional duties

Communicating safety, including:

- lines of communication

Injuries and illness:

- reporting incidents, accidents near misses and illnesses
- the role of the medic
- investigation
- preventing a recurrence
- support available to relatives in the event of illness/injury/major incident/evacuation

A Trainer's Guide for Basic Onshore Safety Training is shown in Appendix 1

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Basic Onshore Safety Training

A.4 Training Programme (continued)

Basic First Aid

1. Emergency First Aid

Give an explanation and demonstration of:

- a. Type of alarm and Principle of Raising the alarm
- b. Appropriate behaviour at the first aid scene.
- c. Immediate first aid actions suitable for use prior to the arrival of the medic / first-aider.
- d. How to carry patients with and without the stretcher.

Delegates to demonstrate and practise:

- e. Immediate first aid actions including CPR.
- f. How to carry patients with and without the stretcher.

A Trainer's Guide for Basic Onshore Safety Training is shown in Appendix 1.

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Basic Onshore Safety Training

A.4 Training Programme (continued)

FIREFIGHTING AND SELF RESCUE

1. Firefighting Onshore

Give an overview of:

- a. The common causes and nature of fires onboard onshore oil and gas installations.
- b. Raising the fire and emergency alarm.
- c. The purpose of fixed fire and gas detection and firefighting systems; the actions to take in areas where these systems are deployed.
- d. Hydrogen Sulphide; the hazards, methods of detection and the actions to take in the event of discovery.

This is in advance of the information detailed during installation safety briefings

Give an explanation and demonstration of:

- e. The actions on discovering a fire.
- f. The operation of hand held portable fire extinguishers, small bore fire hose reels, fire blankets and their use against Class A and B fires.

Each delegates to practise and demonstrate:

- g. Raising the alarm on discovery of a fire.
- h. The operation of water (or foam), dry chemical and CO2 hand held portable fire extinguishers in extinguishing Class A and Class B fires as appropriate.

Note: Delegates may practice operation of small bore fire hose reel and/or fire blanket if requested and if sufficient time is available.

2. Self Rescue

Give an explanation and demonstration of:

- a. Self rescue techniques with and without respiratory protection from areas which are being subjected to smoke and heat.

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Basic Onshore Safety Training

A.4 Training Programme (continued)

FIREFIGHTING AND SELF RESCUE (continued)

2. Self Rescue (continued)

- b. Small group escape techniques with respiratory protection from an area which is being subjected to smoke and heat.

Delegates to practise and demonstrate:

- c. Self-rescue techniques with a smoke hood from areas where visibility is reduced due to smoke*.
- d. Self-rescue techniques with a smoke hood from areas where visibility is completely obscured**.
- e. Small group escape techniques with a smoke hood from areas where visibility is completely obscured.

* smoke hoods to be used in cosmetic smoke only

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

A Trainer's Guide for Basic Onshore Safety Training is shown in Appendix 1

A.5 Duration of Training

The optimum ‘contact time’ for this training and assessment is seen as 10 hours 45 minutes.

The Safety Induction part of this module is 100% theory.

It is suggested that the ratio of 60% theory to 40% practical is appropriate for the remaining parts of the module.

Where this training is part of a programme of longer duration:

- the total contact time per day shall not exceed 8 hours.
- the total training day shall not exceed 10 hours

The total training day includes

- contact time
- refreshment and meal breaks
- travel between training sites where applicable.

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A.6 Assessment

Delegates will be judged against the learning outcomes using direct observation and oral and/or written questions as appropriate.

Training Providers should have a policy and procedure in place for dealing with persons not meeting the stated learning outcomes.

A.7 Further Training/Assessment

The initial BOnST certificate is valid for a period of three years. Thereafter, further training should be undertaken. The Further Onshore Training (FOnT) is conducted at TPTI Approved Training Centres and is undertaken by all onshore workers and should be completed every three years.

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Further Onshore Training

B.3 Learning Outcomes

During the FOnT programme delegates will have an opportunity to practice and demonstrate skills which it is not possible to practice onshore during drills, exercises and onshore training. They will be required to demonstrate their skills and the level of knowledge and understanding of the following key areas.

SAFETY INDUCTION

**Delegates will explain/identify:
(testing knowledge)**

1. Onshore hazards, their control and consequences.
2. Waste disposal/environmental awareness.
3. Basic safety awareness
4. PPE requirements.
5. Procedure for reporting incidents, accidents and near misses.

BASIC FIRST AID

**Delegates will demonstrate practically:
(testing knowledge)**

- a. Immediate first aid actions including CPR
- b. How to carry patients with and without the stretcher.
- c. Recognize the need for CPR
- d. Perform CPR on an adult
- e. Use of AED (Automated external defibrillation)
- f. Understand the principles of airway obstruction
- g. Perform immediate first aid for a choking victim

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Further Onshore Training

B.3 Learning Outcomes

FIREFIGHTING AND SELF RESCUE

**Delegates will demonstrate practically:
(testing skills and knowledge)**

1. Use of appropriate hand held portable fire extinguishers.
2. Self-rescue techniques with a smoke hood from areas where visibility is reduced due to smoke*.
3. Self-rescue techniques with a smoke hood from areas where visibility is completely obscured**.
4. Small group escape techniques with a smoke hood from areas where visibility is completely obscured.

* smoke hoods to be used in cosmetic smoke only

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

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Further Onshore Training

B.4 Training Programme

The training programme outlined below will assist delegates to meet the stated training outcomes.

In order to make efficient use of time and ensure effective learning, the three phases of explanation, demonstration and practice should be integrated wherever practicable.

Full use should be made of visual/audio-visual aid and course handout materials.

Practical exercises should be designed and delivered solely to meet these standards, and must not place on delegates any physical or mental demands other than those required to meet the standard.

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Further Onshore Training

B.4 Training Programme (continued)

SAFETY INDUCTION

1. Industry Overview and Installation Overview

Give an overview of:

- a. Onshore oil and gas activities.
- b. Formation, finding and exploitation of oil and gas.
- c. Types of installations
 - drilling
 - production - oil and gas/gas
 - construction
 - accommodation
 - special vessels.
- d. The onshore environment.

2. Onshore Hazards

Give an explanation of:

Onshore hazards and comparative risk levels

e.g.

- pressure hazards
- motion hazards
- chemical hazards
 - GHS
 - SDS
- electrical hazards
- gravity hazards.

3. Managing Onshore Safety

Give an explanation of:

The multiple barriers model and systems in place to prevent hazards from contacting targets including:

- safe systems of work
- personal responsibility for safety
- safety observation programmes.

4. Controlling Onshore Hazards

Give an explanation of:

The hierarchy of control and how control measures are implemented onshore; discuss the consequences of failure to control the risks.

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Further Onshore Training

B.4 Training Programme (continued)

SAFETY INDUCTION (continued)

5. Living and Working Onshore

Give an explanation of:

Onshore routines:

reporting in
installation induction
cabin/laundry/bond
recreation /smoking
getting on with others

Working routines:

procedures
work authorisation
maintaining a safe workplace
personal protective equipment
waste disposal
the right to stop unsafe work

Give an explanation of:

Involvement in safety e.g.

- observation systems
- Permit to Work (PTW)
- toolbox talks
- safety meetings
- drills & exercises
- additional duties

Communicating safety, including:

- lines of communication

Injuries and illness:

- reporting incidents, accidents near misses and illnesses
- the role of the medic
- investigation
- preventing a recurrence
- support available to relatives in the event of illness/injury/major incident/evacuation

A Trainer's Guide for Further Onshore Training is shown in Appendix 1

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Further Onshore Training

B.4 Training Programme (continued)

Basic First Aid

1. Emergency First Aid

Delegates to demonstrate and practise:

- a. Immediate first aid actions including CPR
- b. How to carry patients with and without the stretcher.
- c. Recognize the need for CPR
- d. Perform CPR on an adult
- e. Use of AED (Automated external defibrillation)
- f. Understand the principles of airway obstruction
- g. Perform immediate first aid for a choking victim

A Trainer's Guide for Further Onshore Training is shown in Appendix 1.

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Further Onshore Training

B.4 Training Programme (continued)

FIREFIGHTING AND SELF RESCUE

1. Firefighting Onshore

Give an overview of:

- a. The common causes and nature of fires onboard onshore oil and gas installations.
- b. Raising the fire and emergency alarm.
- c. The purpose of fixed fire and gas detection and firefighting systems; the actions to take in areas where these systems are deployed.
- d. Hydrogen Sulphide; the hazards, methods of detection and the actions to take in the event of discovery.

This is in advance of the information detailed during installation safety briefings

Give an explanation and demonstration of:

- e. The actions on discovering a fire.
- f. The operation of hand held portable fire extinguishers, small bore fire hose reels, fire blankets and their use against Class A and B fires.

Each delegates to practise and demonstrate:

- g. Raising the alarm on discovery of a fire.
- h. The operation of water (or foam), dry chemical and CO2 hand held portable fire extinguishers in extinguishing Class A and Class B fires as appropriate.

Note: Delegates may practice operation of small bore fire hose reel and/or fire blanket if requested and if sufficient time is available.

2. Self Rescue

Give an explanation and demonstration of:

- a. Self rescue techniques with and without respiratory protection from areas which are being subjected to smoke and heat.

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Further Onshore Training

B.4 Training Programme (continued)

FIREFIGHTING AND SELF RESCUE (continued)

2. Self Rescue (continued)

- b. Small group escape techniques with respiratory protection from an area which is being subjected to smoke and heat.

Delegates to practise and demonstrate:

- c. Self-rescue techniques with a smoke hood from areas where visibility is reduced due to smoke*.
- d. Self-rescue techniques with a smoke hood from areas where visibility is completely obscured**.
- e. Small group escape techniques with a smoke hood from areas where visibility is completely obscured.

* smoke hoods to be used in cosmetic smoke only

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

A Trainer's Guide for Further Onshore Training is shown in Appendix 1

B.5 Duration of Training

The optimum ‘contact time’ for this training and assessment is seen as 6 hours 30 minutes

Where this training is part of a programme of longer duration:

- the total contact time per day shall not exceed 8 hours.
- the total training day shall not exceed 10 hours

The total training day includes

- contact time
- refreshment and meal breaks
- travel between training sites where applicable.

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Further Onshore Training

B.6 Assessment

Delegates will be judged against the learning outcomes using direct observation.

Training Providers should have a policy and procedure in place for dealing with persons not meeting the stated learning outcomes.

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RESOURCES

C.1 Staff

In order for a competence programme to be delivered successfully it is necessary to have appropriate persons in presenting and supporting roles.

TPTI Approved Training Providers will deliver and carry out assessment of the programme.

1. Trainer will be :

- full time staff or contractor, working with the training providers. For the training assistance, the freelances can be allowed.
- trained in instructional/lecture techniques and/or have proven instructing /teaching experience.
- graduated from the university, vocational school, school, institute, or any organisation that are accredited by the government.
- included in an ongoing training programme, which includes visits to onshore oil and gas installations, to enable them to maintain and update skills.
- Able to clearly communicate and teach in English language.

2. Assessors will be:

- discipline experts and will hold a recognised formal assessor award
- knowledgeable of the areas being assessed.

3. All staff will have the appropriate competencies to conduct/assist with the element of training being undertaken.

4. All Training staff will be trained in the causes and consequences of stress/anxiety, coping skills and how to manage delegates who are suffering from anxiety.

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RESOURCES

C.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.

Safety Induction

Theory 1 : 16

3. Emergency First Aid

Theory 1 : 16

Demonstration 1 : 16

Practical on :

- first aid actions of ABC 1 : 8
- with SCBA 1 : 8
- practical with a stretcher 1 : 8

Fire fighting & Self Rescue

Theory 1: 16

Extinguishers

- Theory & Demonstration 1 : 16
- Practical Extinguishers 1 : 4

Practical self rescue

- Group escape exercise 1 : 4
- Self-rescue in cosmetic smoke 1 : 4

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RESOURCES

C.3 Facilities

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 view, to 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;

- (a) The boarding at the muster station after the alarm has been raised.
- (b) Practice with a stretcher
- (c) The use of portable fire extinguishers against the following:
 - Class B contained spill
 - Class A fire
- (d) The donning and wearing of a smoke hood in an area which can be smoke logged using cosmetic smoke.

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

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RESOURCES

C.4 Equipment

1. Equipment, of a type found on onshore oil and gas installations that are required to meet the needs of the training programme.
 - (a) Stretcher
 - (c) Portable Extinguishers - water, foam CO₂ and dry chemical
 - (d) H₂S detectors
 - (e) Water fire hose reel
 - (f) Fire blanket
 - (g) Smoke hoods

2. Safety Equipment appropriate to training being delivered.
 - (a) Personal Protective Equipment (PPE)
 - (b) First Aid Equipment
 - (c) Fire Fighting Equipment

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

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GENERAL GUIDANCE & REQUIREMENTS

C.5 Certification and Recording

Registration of BOnST & FOnT Modules

Training Establishments are responsible for the following:

- (a) The issuing of certificates 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 the agreed training outcomes and must contain the following:

Establishment name

Full TPTI course title stating that it is TPTI approved

TPTI course identification code

Delegate's name

Course dates

Expiry date (will be the day before the course completion date)

Unique Certificate Number

Establishment Signatory

- (b) Each individual attending any TPTI approved programme must be registered with the Central Register (CR) operated by TPTI. Registration must be made by the training establishment to TPTI on a daily basis.
- (c) All Joining Instructions contain information which indicate certain aspects of the course are of a physical nature. The responsibility for the individual completing the course without any adverse effects to their present state of health lies with the delegate and/or the company sponsoring the delegate.
- (d) Prior to each course commencing, delegates must sign a declaration indicating they have read and understood a written statement regarding the physical nature of the programme and the need for delegates to be in good health. Instructional staff should also read out a statement indicating this at the time.
- (e) Where doubt exists regarding the medical fitness of any delegate the establishment should seek the advice of a medical officer.
- (f) A medical officer, familiar with the nature and extent of the training is "on call".

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GENERAL GUIDANCE & REQUIREMENTS (cont)

- (g) Risk assessment of all training areas and provision of all appropriate safety equipment.
- (h) Written statements of organisation for all sessions, which clearly define responsibilities and relationships for all staff either directly or indirectly involved.
- (i) All training and supporting activities are carried out in accordance with current legislation.

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GENERAL GUIDANCE & REQUIREMENTS (cont)

C.6 Medical and Health Requirements

Emergency response training contains physically demanding and stressful elements. All personnel who participate in such training should be medically fit and capable of participating fully.

Training Establishments are required to ensure that prior to participating in practical exercises the delegate either;

- a) Possess a valid, current medical certificate from the hospital, clinic, or clinical agents registered under Thai government, and :
- b) Undergoes an appropriate screening by the trainer or medical officer inside the training establishment area.

It is recommended that this information is given to delegates along with pre-course joining instructions

Guidance and advice on this standard is available by contacting:

Technical Petroleum Training Institute (TPTI)
Energy Complex Building B
555/2, 11th Floor, Vibhavadi-Rangisit,
Chatuchak, Bangkok 10900 Thailand

Tel: 66 29365184
Fax: 66 29365187
E-mail: admin@tpti.org

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Appendix 1.

GUIDANCE TO THE TRAINER

Basic Onshore Safety Training

Trainer's Guide

It is the intention that the following trainer's guide be used as a reference tool by training staff in the development and provision of theory and practical lessons. Resources and key topics listed should not be seen as lists that are either definitive or exhaustive when being used for lesson preparation.

The optimum 'contact time' for this training is seen as 10 hours 45 minutes.

The times indicated for individual lessons are flexible within this overall optimum time. However instructional staff should see these times as indicators to the amount of detail required for the delivery of the topic.

The training 'contact time' should not exceed 8 hours per day and except in unusual circumstances the total training day should not exceed 10 hours.

<u>Content</u>	<u>Optimum Contact Time (hrs)</u>
1. Registration and Safety	Not included
2. Safety Induction	3 hrs
3. Basic First Aid	3 hrs
5. Firefighting & Self-Rescue	4 hrs 25 min
6. Assessment of Safety Induction	30 min

Total Optimum Contact Time	10 hours 55 mins (655 mins)

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Instructor's Guide – BOnST (Registration & Safety)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Registration	<ul style="list-style-type: none"> • Medical Fitness • CR (refer to TPTI 'Personal Record') • Training Provider Registration • Certification 	E			Visual Aid Medical Statement CR Registration Forms Training Provider documentation	Not included in course training time total
	Safety	<ul style="list-style-type: none"> • Training Provider Health & Safety Policy • Fire Alarm/Emergency Actions • First Aid • Accident reporting • Site Plan of training facility 	E				

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Session Introduction	<ul style="list-style-type: none"> • Aim (what the session is designed to do) • Training Outcomes (what is expected of delegates) • Timetable/Programme (how delegates can achieve what is expected of them) • Staff (who will be involved with the delegates) 	E			Visual Aid	10 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Safety Induction 1 Pg. 11	Industry & Installation Overview	<ul style="list-style-type: none"> • Overview of onshore oil and gas activities. • Formation, finding and exploitation of oil and gas <ul style="list-style-type: none"> - how hydrocarbons are formed, found and produced. • Types of installations and specialist vessels and their main functions and features. <ul style="list-style-type: none"> - drilling - production oil & gas/ gas - construction - heavy lift, pipe laying - accommodation - specialist vessels - standby, support, transportation support. • The onshore environment <ul style="list-style-type: none"> - remote nature - harsh conditions - proximity of working/living environments 	E			Visual Aid	30 mins

E - Explanation (by training staff) D - Demonstration (by training staff) P - Practice (by delegate)

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Instructor's Guide – BOnST (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Safety Induction 2 Pg. 11	Onshore Hazards Introduction	<ul style="list-style-type: none"> • Definitions <ul style="list-style-type: none"> - hazard - risk - control measure • Accident Statistics <ul style="list-style-type: none"> - comparison with other industries • Environmental impact / statistics 	E		Safety Induction 1	Visual Aid	10 mins
	Onshore Hazards	<ul style="list-style-type: none"> • Pressure Hazards <ul style="list-style-type: none"> - oil/gas reservoir - process/drilling pipework - water / gas injection - gas compression - noise • Motion Hazards <ul style="list-style-type: none"> - drilling tubulars - exposed machinery parts - moving heavy equipment - manual handling 			Safety Induction 2		
					Safety Induction 1		20 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Safety Induction 3 Pg. 11	Managing onshore safety	<ul style="list-style-type: none"> • Concepts of hazards contacting targets & barriers to the contact being made - risk assessments - procedures - training - competency assurance - communications - permit to work • Behavioural safety programmes - the 9 elements of PRfS - safety observation programmes 	E		Safety Induction 3	Multiple barriers model <ul style="list-style-type: none"> • Step change products - task risk assessment - lifting and mechanical handling - personal responsibility for safety - look this way • OIAC “Guidelines to PTW Systems in the Petroleum Industry” 	20 mins
A.4 Safety Induction 4 Pg. 11	Controlling Onshore Hazards	<ul style="list-style-type: none"> • Hierarchy of control • Determining risks (inc. to environment) and implementing control measures e.g. - reservoir/ pipe work isolation - B.O.P. - training on handling tubulars - guarding of machinery - MSDS's / chemical & dust protection - electrical isolation - fall protection etc. 			Safety Induction 1		

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Safety Induction 6 Pg. 12	Living and Working Onshore	<ul style="list-style-type: none"> • Living onshore - reporting in - items permitted/not permitted onshore - installation induction - cabin/laundry/bond - recreation/smoking - getting on with others • Responsibilities of employer / employee - line of reporting 	E		Safety Induction 5	Installation organisation chart	15 mins

E - Explanation (by training staff)

D- Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Living and Working Onshore (cont.)	<ul style="list-style-type: none"> • Working routine <ul style="list-style-type: none"> - procedures - work authorisation - personal protective equipment (PPE) - maintaining a safe place of work - waste disposal - right to stop unsafe work • Your involvement in safety <ul style="list-style-type: none"> - safety observation systems - PTW - toolbox talks - safety meetings - emergency drills & exercises - additional emergency response duties - getting involved - what to do when not satisfied e.g. <ul style="list-style-type: none"> immediate supervisor OIM 	E		Safety Induction 4	Examples of common PPE	10 mins
STOP/START/TOFS etc. Examples of permits						25 mins	
						Installation emergency organisation chart	

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST_(Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Living and Working Onshore (cont.)	<ul style="list-style-type: none"> • Reporting injuries & illness - first aid arrangements onshore - reporting incidents, accidents & near misses - investigation - preventing a recurrence - support available to relatives 	E		Safety Induction 5		10 mins
	Summary						
	Assessment	Assessment of Safety Induction				Question papers/ question bank	30mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

Total 3 hours

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Instructor's Guide – BOnST (Basic First Aid)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Session Introduction	<ul style="list-style-type: none"> • Aim (what the session is designed to do) • Learning Outcomes (what is expected of delegates) • Timetable/Programme (how delegates can achieve what is expected of them) • Staff (who will be involved with the delegates) 	E			Visual Aid	15 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Basic First Aid)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Basic First Aid 1 Pg. 13	<p>First Aid Overview</p> <p>Raising the alarm</p> <p>First Aid Kit</p>	<ul style="list-style-type: none"> • Overview of onshore first aid precedent. • causes of injuries and how to protect . • Levels of the serious injurious and their handling methodology. • Appropriate behaviour at the first aid scene. • Raising the alarm for coping with the first aid requirement • Type of alarm • Introduction of the first aid kit • How to identify and use all ingredients of the first aid kit. 	E		<p>Basic First Aid a.</p> <p>Basic First Aid b.</p>	Visual Aid	50 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Basic First Aid)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Basic First Aid 1 Pg. 13	Immediate first aid actions	<ul style="list-style-type: none"> • Understanding of CPR • How to carry patients with and without the stretcher. • Wounded and Bleeding. • Bondages. • Thermal Stress and Epilepsy. • Use of AED 	E,D E,D E,D E E,D E	P P P P P	Basic First Aid f., g.,h.,i.,j.,k.,l	Visual Aid	1 hr. 45 min.

E - Explanation (by training staff) D - Demonstration (by training staff) P - Practice (by delegate)

Total 3 hours

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Instructor's Guide – BOnST (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Session Introduction	<ul style="list-style-type: none"> • Aim (what the session is designed to do) • Learning Outcomes (what is expected of delegates) • Timetable/Programme (how delegates can achieve what is expected of them) • Staff (who will be involved with the delegates) 	E			Visual Aid	15 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Firefighting & Self Rescue a) Pg. 14	Fire onboard an onshore installation	<ul style="list-style-type: none"> Triangle of combustion Fire spread relate <ul style="list-style-type: none"> - conduction, directly to convection, triangle of radiation combustion <p>Extinguishing media</p> <ul style="list-style-type: none"> - water, dry powder, foam, CO₂, 	E			Visual Aid	25 mins
	Common causes of fire onboard	<ul style="list-style-type: none"> Processes and Activities <ul style="list-style-type: none"> - emphasis on electrical, domestic and welding related fires. 	E				

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide - BOnST (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	PPE Issue PPE to delegates	<ul style="list-style-type: none"> Protection offered Correct method of wearing/fit Condition of PPE 		D&P		PPE as appropriate	15 mins
	Portable hand held firefighting equipment Fire Extinguishers	<ul style="list-style-type: none"> Raising the alarm. Recognition of the different types of fire extinguisher (water, dry chemical, foam, CO₂ - not halon) Operate and use of each type of extinguisher on appropriate fire (class A and B) <ul style="list-style-type: none"> - position of user - techniques Delegates to practice operation and use of the range of extinguishers 	E E	D&P D	Firefighting & Self Rescue 1	Extinguishers (Water, Dry Powder, Foam, CO ₂ - not halon) Hose Reel Fire Blanket Fuel (Class A & B fires) Props (appropriate to practical training requirements) First Aid	65 mins
	Small bore fire hose reels	<ul style="list-style-type: none"> Operation and use on class A fire by training staff 	E	D			
	Fire Blanket	<ul style="list-style-type: none"> Use on class B fire by training staff 	E	D			

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – BOnST (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
		<p>Notes:-</p> <ol style="list-style-type: none"> 1. All practical sessions involving the use of the above equipment should include the appropriate procedure on discovering a fire with emphasis on raising the alarm. 2. The TPTI Standard will be satisfied if each trainee practises the operation and use of each of the following types of fire extinguisher: <ul style="list-style-type: none"> - water or foam - CO2 - dry chemical 3. Although not a requirement of the standard, delegates may operate a small bore hose reel and/or fire blanket if sufficient time is available. 					

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide - BOnST (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
A.4 Firefighting & Self Rescue 2 Pg. 15	Self Rescue Self rescue techniques	<ul style="list-style-type: none"> Self rescue, - without smoke hood - with smoke hood <p>To include correct methods and procedures for escape when exposed to smoke and heat e.g. movement in corridors, on stairs with consideration of heat & visibility levels</p>	E&D			Visual Aid	20 mins
	Smoke hoods	<ul style="list-style-type: none"> Donning and use of smoke hood Explanation & demonstration of a selection of smoke hood types to delegates. 	E&D			Selection of smoke hoods for demonstration	15 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide - BOnST (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Self Rescue						
	Practical Self Rescue	<ul style="list-style-type: none"> Brief for practical session. Delegates to practise self rescue using smoke hood when, <ul style="list-style-type: none"> - operating in restricted visibility (cosmetic smoke) - visibility is completely obscured. Delegates to practise small group escape using smoke hood when visibility is completely obscured 	E	D&P	Firefighting & Self Rescue 2 Firefighting & Self Rescue 3 Firefighting & Self Rescue 4	Cosmetic smoke generator Smoke hoods Facility/Prop Torches First Aid/Resuscitation equipment	10 mins 80 mins
	Summary	<p>Note: More detailed information on escape equipment and procedures specific to an installation will be included in installation safety briefings.</p>					10 mins

E - Explanation (by training staff) D - Demonstration (by training staff) P - Practice (by delegate)

Total 4hrs 25min
(265 minutes)

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Appendix 2.

GUIDANCE TO THE TRAINER

Further Onshore Training

The intention of the following guidance is that it be used as a reference tool by training staff in the development and provision of the exercises indicated on pages 32-33. Resources and key topics listed should not be seen as either definitive or exhaustive when being used for lesson preparation.

The optimum 'contact time' for this training is seen as 6 hours 5 minutes.

The times indicated for individual lessons are flexible within this overall optimum time. However instructional staff should see these times as indicators to the amount of detail required for the delivery of the topic.

When this module is part of a longer training programme the training 'contact time' should not exceed 8 hours per day and except in unusual circumstances the total training day should not exceed 10 hours.

<u>Content</u>	<u>Optimum Contact Time</u>
1. Registration and Safety	Not included
2. Safety induction	1 hrs 40 min
3. Basic First Aid	2 hrs
4. Fire fighting & Self Rescue	3 hr 15 min
5. Assessment of Safety Induction	20 min
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Total Optimum Contact Time	7 hours 15 minutes (435 minutes)
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Instructor's Guide – FOnT (Registration & Safety)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Registration	<ul style="list-style-type: none"> • Medical Fitness • CR (refer to TPTI 'Personal Record') • Training Provider Registration • Certification 	E			Visual Aid Medical Statement CR Registration Forms Training Provider documentation	Not included in course training time total
	Safety	<ul style="list-style-type: none"> • Training Provider Health & Safety Policy • Fire Alarm/Emergency Actions • First Aid • Accident reporting • Site Plan of training facility 	E				

E - Explanation (by training staff)

D- Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT (Course Introduction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Course Introduction	<ul style="list-style-type: none"> • Aim (what the session is designed to do) • Training Outcomes (what is expected of delegates) • Timetable/Programme (how delegates can achieve what is expected of them) • Staff (who will be involved with the delegates) 	E			Visual Aid	10 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
B.4 Safety Induction 1 Pg. 21	Industry & Installation Overview	<ul style="list-style-type: none"> • Overview of onshore oil and gas activities. 	E			Visual Aid	5 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
B.4 Safety Induction 2 Pg. 21	Onshore Hazards Introduction	<ul style="list-style-type: none"> • Definitions <ul style="list-style-type: none"> - hazard - risk - control measure • Accident Statistics <ul style="list-style-type: none"> - comparison with other industries • Environmental impact / statistics 	E		Safety Induction 1	Visual Aid	10 mins
	Onshore Hazards	<ul style="list-style-type: none"> • Pressure Hazards <ul style="list-style-type: none"> - oil/gas reservoir - process/drilling pipework - water / gas injection - gas compression - noise • Motion Hazards <ul style="list-style-type: none"> - drilling tubulars - exposed machinery parts - moving heavy equipment - manual handling 			Safety Induction 2		
					Safety Induction 1		20 mins

E - Explanation (by training staff) D - Demonstration (by training staff) P - Practice (by delegate)

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Instructor's Guide – FOnT (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
B.4 Safety Induction 3 Pg. 21	Managing onshore safety	<ul style="list-style-type: none"> • Concepts of hazards contacting targets & barriers to the contact being made - risk assessments - procedures • Behavioural safety programmes - the 9 elements of PRfS - safety observation programmes 	E		Safety Induction 3	Multiple barriers model • Step change products - task risk assessment - lifting and mechanical handling - personal responsibility for safety - look this way • OIAC “Guidelines to PTW Systems in the Petroleum Industry”	10 mins
B.4 Safety Induction 4 Pg. 21		<ul style="list-style-type: none"> • Hierarchy of control • Determining risks (inc. to environment) and implementing control measures e.g. - reservoir/ pipe work isolation - B.O.P. - training on handling tubulars - guarding of machinery - MSDS’s / chemical & dust protection - electrical isolation - fall protection etc. 			Safety Induction 1		

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT (Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
B.4 Safety Induction 6 Pg. 22	Living and Working Onshore	<ul style="list-style-type: none"> • Responsibilities of employer / employee - line of reporting 	E		Safety Induction 5		5 mins

E - Explanation (by training staff)

D- Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT_(Safety Induction)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Living and Working Onshore (cont.)	<ul style="list-style-type: none"> • Reporting injuries & illness - first aid arrangements onshore - reporting incidents, accidents & near misses - investigation - preventing a recurrence - support available to relatives 	E		Safety Induction 5		5 mins
	Summary						
	Assessment	Assessment of Safety Induction				Question papers/ question bank	20 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

Total 1 hours 40 mins

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Instructor's Guide – FOnT (Basic First Aid)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Session Introduction	<ul style="list-style-type: none"> • Aim (what the session is designed to do) • Learning Outcomes (what is expected of delegates) • Timetable/Programme (how delegates can achieve what is expected of them) • Staff (who will be involved with the delegates) 	E			Visual Aid	15 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT (Basic First Aid)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
B.4 Basic First Aid 1 Pg. 23	Immediate first aid actions	<ul style="list-style-type: none"> • Understanding of CPR. • How to carry patients with and without the stretcher. • Wounded and Bleeding. • Bondages. • Thermal Stress and Epilepsy. • Use of AED 	E,D E,D E,D E E,D E	P P P P P	Basic First Aid f., g.,h.,i.,j.,k.,l.	Visual Aid	1 hr. 45 min.

E - Explanation (by training staff) D - Demonstration (by training staff) P - Practice (by delegate)

Total 2 hours

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Instructor's Guide – FOnT (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Session Introduction	<ul style="list-style-type: none"> • Aim (what the session is designed to do) • Learning Outcomes (what is expected of delegates) • Timetable/Programme (how delegates can achieve what is expected of them) • Staff (who will be involved with the delegates) 	E			Visual Aid	15 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
B.4 Firefighting & Self Rescue 1 Pg. 24	<p>Fire onboard an onshore installation</p> <p>Nature of Fire</p> <p>Common causes of fire onboard</p>	<ul style="list-style-type: none"> Triangle of combustion Fire spread relate - conduction, directly to convection, triangle of radiation combustion <p>Extinguishing media</p> <ul style="list-style-type: none"> - water, dry powder, foam, CO₂, <ul style="list-style-type: none"> Processes and Activities - emphasis on electrical, domestic and welding related fires. 	E			Visual Aid	20 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide - FOnT (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	PPE Issue PPE to delegates	<ul style="list-style-type: none"> Protection offered Correct method of wearing/fit Condition of PPE 		D&P		PPE as appropriate	15 mins
	Portable hand held firefighting equipment Fire Extinguishers	<ul style="list-style-type: none"> Raising the alarm. Recognition of the different types of fire extinguisher (water, dry chemical, foam, CO₂ - not halon) Operate and use of each type of extinguisher on appropriate fire (class A and B) <ul style="list-style-type: none"> - position of user - techniques Delegates to practice operation and use of the range of extinguishers 	E E	D&P D	Firefighting & Self Rescue 1	Extinguishers (Water, Dry Powder, Foam, CO ₂ - not halon) Hose Reel Fire Blanket Fuel (Class A & B fires) Props (appropriate to practical training requirements) First Aid	50 mins
	Small bore fire hose reels	<ul style="list-style-type: none"> Operation and use on class A fire by training staff 	E	D			
	Fire Blanket	<ul style="list-style-type: none"> Use on class B fire by training staff 	E	D			

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide – FOnT (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
		<p>Notes:-</p> <ol style="list-style-type: none"> 1. All practical sessions involving the use of the above equipment should include the appropriate procedure on discovering a fire with emphasis on raising the alarm. 2. The TPTI Standard will be satisfied if each trainee practises the operation and use of each of the following types of fire extinguisher: <ul style="list-style-type: none"> - water or foam - CO2 - dry chemical 3. Although not a requirement of the standard, delegates may operate a small bore hose reel and/or fire blanket if sufficient time is available. 					

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide - FOnST (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
B.4 Firefighting & Self Rescue 2 Pg. 24	Self Rescue Self rescue techniques	<ul style="list-style-type: none"> Self rescue, <ul style="list-style-type: none"> - without smoke hood - with smoke hood <p>To include correct methods and procedures for escape when exposed to smoke and heat e.g. movement in corridors, on stairs with consideration of heat & visibility levels</p>	E&D			Visual Aid	10 mins
	Smoke hoods	<ul style="list-style-type: none"> Donning and use of smoke hood Explanation & demonstration of a selection of smoke hood types to delegates. 	E&D			Selection of smoke hoods for demonstration	5 mins

E - Explanation (by training staff)

D - Demonstration (by training staff)

P - Practice (by delegate)

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Instructor's Guide - FOnT (Firefighting & Self Rescue)

Ref TPTI Std	Subject	Key Topics	Th	P	Learning Outcome	Resource	Time
	Self Rescue						
	Practical Self Rescue	<ul style="list-style-type: none"> Brief for practical session. Delegates to practise self rescue using smoke hood when, <ul style="list-style-type: none"> - operating in restricted visibility (cosmetic smoke) - visibility is completely obscured. Delegates to practise small group escape using smoke hood when visibility is completely obscured 	E	D&P	Firefighting & Self Rescue 2 Firefighting & Self Rescue 3 Firefighting & Self Rescue 4	Cosmetic smoke generator Smoke hoods Facility/Prop Torches First Aid/Resuscitation equipment	5 mins 60 mins
	Summary	<p>Note: More detailed information on escape equipment and procedures specific to an installation will be included in installation safety briefings.</p>					5 mins

E - Explanation (by training staff) D - Demonstration (by training staff) P - Practice (by delegate)

Total 3hrs 15min
(195 minutes)

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