

Department of Energy & Climate Change

Energy Development Unit

Oil Spill Response Training Guidelines for the UK

Offshore Oil Industry

Accreditation of Oil Spill Response Training for the

UK Offshore Oil Industry

Introduction to Oil Spill Response Training standards applied to the UK Offshore Oil Industry

Accreditation of Oil Spill Response Training For The UK Offshore Oil Industry

Introduction

This document sets a standard for oil spill response training required by the UK offshore oil industry regulator, the **Department of Energy and Climate Change (DECC)**. The standards have been set specifically for operations on the UK Continental Shelf.

Article 3 of the International Maritime Organisation's OPRC Convention of 1990, sets down a requirement for all operators of Offshore Installations to have in place an Oil Pollution Emergency Plan approved by a Competent National Authority, which is compatible with that state's National Contingency Plan. The UK's National Contingency Plan is owned and operated by the Maritime and Coastguard Agency (MCA).

Article 6 of the OPRC Convention of 1990 (adopted by the UK in 1994), sets down a requirement for all operators of offshore installations, drilling rigs and offshore loading terminals to have in place an oil spill response system that will include an element of pre-positioned response equipment, **training and regular exercise**, appropriate to perceived risk.

All matters pertaining to shipping, harbours and terminals are controlled and administered by the UK Government's Maritime and Coastguard Agency (MCA), as the UK's stated Competent National Authority. Standards of training and a format of accreditation were put in place and approved by the then minister of state in 1996.

In its role as statutory regulator for the offshore oil industry, under the **Merchant Shipping (Oil Pollution Preparedness, Response and Co-operation Convention) Regulations 1998** and as a consequence of the **Offshore Installations (Emergency Pollution Control) Regulations 2002**, DECC has established a similar system of training and accreditation to meet with the requirements of OPRC Article 6 as stated above.

DECC has an arrangement with the Nautical Institute who presently accredit all approved OPRC training courses on behalf of the MCA to:-

1. Identify and recommend courses to DECC, in consultation with MCA, to meet the needs of the offshore oil industry and also meet the requirements of Article 6 of the OPRC Convention.
2. Accredite training courses and where appropriate training centres on behalf of DECC in conjunction with existing Offshore Petroleum Industry accreditation organisations.

Enquiries concerning training requirements should be sent to: offshore.inspectorate@berr.gsi.gov.uk
Enquiries concerning accreditation should be sent to: sec@nautinst.org

Offshore Oil Industry - Oil Spill Response Training Requirements in the UK Sector

Operators of offshore installations will identify training needs and ensure that all personnel whose work may involve the handling and/or management of an oil spill (from initial sighting to physical response) have received appropriate training. The level and frequency of training will be in accordance with the following 4 categories. Details will be specified by the operator, within the installation oil pollution emergency plan.

Training Standards

Under the **Merchant Shipping (Oil Pollution Preparedness, Response and Cooperation Convention) Regulations 1998**, these training courses bring the UK Offshore Oil Industry into line with existing requirements for personnel operating onshore oil terminals and ports.

DECC appointed the Nautical Institute to undertake accreditation of the following OPRC Oil Spill Response training courses applicable to offshore oil and gas operations:

	IMO equivalent	Duration	Refresher
Offshore On-scene Commander (OIM) UK DECC Level 1	None	4 hours	Repeat 3 yearly
Corporate Management UK DECC Level 2	None	4 hours	Repeat 3 yearly
DECC Onshore Emergency Responder UK DECC Level 3	None	24 hours	1 day / 3 yearly
Onshore (IMO level 2) Emergency Responder UK DECC Level 4	Level 2	32 hours	1 day / 3 yearly

1. Offshore On-scene Commander (OIM)

Course: *Offshore On-scene Commander (min 4 hrs) IMO no equivalent*

It is appreciated that the specific concerns of the offshore OIM and Oil Company Managers are for the safety of the rig or platform. In the event of an incident, their primary involvement will be stabilisation of the rig or platform, to identify the source of, and to control the spillage of oil, as well as to reduce any chance of ignition.

Personnel will not normally be required to respond to a spillage offshore with out recourse to instruction from onshore, other than to reduce the risk of fire or explosion. The exception to this will be in locations of special environmental sensitivity such as inshore blocks within 25 miles of the coastline. In such areas special response requirements will be stated within the Oil Spill Contingency covering that operation and additional training, where identified, will be given prior to commencing operations.

The OIM and other offshore personnel responsible for assessing oil spills and their consequence, activating contingency plans and reporting pollution incidents to authorities will be required to undertake a training module designed to ensure that they are able to undertake these activities. These training modules may be part of any approved OIM course or may be taken as a half-day course at a training centre or as distance learning modules, accredited by the Nautical Institute.

This qualification will only be recognised within the UK and will not have any international equivalent under the IMO level standards. It is recommended that any OIM likely to have an expanded role and responsibility operating in International waters should undertake the full equivalent of an IMO level 2 course.

On scene Responder Personnel must repeat a refresher update course within 3 years from the date of their original certificate to update any changes in legislation and as a review of their contingency arrangements. (4 hours)

2. Corporate Management

Course *Corporate Management (min 4 hrs) IMO no equivalent*

This course is designed to acquaint and raise the awareness of personnel selected to undertake the role of an executive or corporate decision-maker, or his / her advisor, dealing with priority setting and significant external liaison during an oil spill. Such decision-making may include dialogue with operator responder personnel, DECC, MCA, SOSREP (Secretary of State's Representative) and other involved government agencies.

Appropriate personnel, or their nominated advisors, who do not hold any other oil spill response certification, at an appropriate level, will be required to attend or undertake a **Corporate Manager Course**.

Corporate Management must repeat the course within 3 years from the date of their original certificate through attendance at a refresher course. (4 Hours)

3. Onshore Emergency Responder

Course: *DECC Onshore Emergency Responder UK (min 24 hrs) IMO no equivalent*

Although operators holding a DECC approved oil pollution emergency plan must have access to a person or persons trained to an IMO level 2 equivalent at all times, this may be put in place either in house employee of the operator or under contract. This does not obviate the need for other duty rota response personnel who may be involved in the decision-making processes of response to an oil spill to be competent in response requirements.

This course will ensure that adequate response arrangements can be managed, achieved and understood by all concerned. These personnel must also be able to work with and understand the actions being agreed between the IMO level 2 emergency responder and Government personnel about any response strategy formulated. Any such decision making process may include input from and with DECC, MCA, SOSREP (Secretary of State's Representative), the response contractor and other involved government agencies.

All personnel, staff and contractors, who are Emergency Room Managers or hold positions as advisors dealing with response to offshore oil spills, will be required to undertake training in the following oil spill response subjects:

- Assess situation
- Activate Contingency plan
- Develop a response action plan (Strategy)
- Assist in establishing & organising a response structure
- Assist in activating an operational response
- Activate an Operational Response
- Manage and control ongoing response
- Assist in the decisions to deactivate a response
- Debrief & report

Two levels of training are acceptable at this level within UK waters. In recognition that each operator within their approved contingency plan will have access to an IMO level 2 emergency responder, a specific DECC Onshore Emergency Responder Course has been developed for the oil and gas industry which covers the above listed subjects. The minimum duration of this course will be 24 hours. Operators should note that this qualification will only be recognised within the UK and will not have any international equivalent at IMO model course levels. Any person requiring international recognition or likely to be involved as an onshore IMO level 2 On Scene Commander or Responder on behalf of an oil company, will require to undertake a further 8 hours of practical training. This will bring them up to the 32 hours training period required within the UK by the UK MCA for IMO level 2 course recognition.

Any person already in possession of a UK accredited certificate at IMO level 2 may be deemed to be qualified to undertake the above mentioned roles.

Onshore Emergency Responders, must undertake refresher courses at periods of 3 years from the date of their original certificate. Such refresher courses shall be for the duration of 1 day, and will be held at an accredited training centre, or by any other suitable means as accredited by the Nautical Institute.

4. Onshore Emergency Responder (IMO Level 2 Equivalent)

Course: *Onshore Emergency Responder - (min 32 hrs) IMO level 2 Equivalent*

Each operator holding an oil pollution emergency plan will have access to a person or persons competent to IMO level 2 at all times to advise on response strategies. They will be capable of working with and understanding the actions being agreed with Government about any response strategy. Such decision-making may include input from and with DECC, MCA, SOSREP (Secretary of State's Representative) and other involved government agencies. The Responder will also have a good understanding of the IMO OPRC Convention and protocol involving regions, international boundaries and agreements.

The onshore IMO Level 2 responder will either be an in house employee of the operator or will be available on contract as part of the operator's oil spill response contract arrangements. Any person already in possession of a UK accredited certificate at IMO level 2 may be deemed to be qualified to undertake such a role. Any other person with an IMO Level 2 certificate from another country shall be required to undertake a DECC level 1 Offshore On-scene Commander (OIM) UK course to be deemed competent.

Course will include the following oil spill response subjects:

- . Assess situation
- . Activate Contingency plan
- . Develop a response action plan (Strategy)
- . Assist in establishing & organising a response structure
- . Assist in activating an operational response
- . Activate an Operational Response
- . Manage and control ongoing response
- . Assist in the decisions to deactivate a response
- . Debrief & report

In addition to the DECC Level 3 course, the person nominated to this position will have undertaken at least 8 hours of practical training in the use and limitations of the various options and equipment types available to the response team.

Onshore IMO Level 2 Emergency Responder's must undertake refresher courses at periods of 3 years from the date of their original certificate. Such refresher courses shall be for the duration of 1 day, and will be held at an accredited training centre, or by any other suitable means accredited by the Nautical Institute.

Recognition of Training in DECC Approved Oil Pollution Emergency Plans

A reflection of how these requirements will be met, a designation of responsibilities and a programme of training and exercises shall be included within all Oil pollution emergency plans submitted or due for re-submission to DECC.

DECC Energy Development Unit
Department of Energy and Climate Change

The Nautical Institute accreditation procedures for offshore oil industry oil spill response courses in the UK

1. Accreditation of training needs

The Institute will accredit the national training standard required by DECC and MCA in the UK under the OPRC Convention.

2. Setting the training objectives

The accreditors will require clear training objectives for:

- The overall training programme
- Each module
- Skills and knowledge content for each section

The accreditors will require syllabuses in tabular form covering:

- Duties/responsibilities of operators
- Knowledge required
- Skills needed
- Specialised skills i.e. training team members etc.
- Safety requirements
- Method of testing candidates
- Pass or fail criteria

3. Training programme

The accreditors will require details of the methods to be used in meeting the above objectives, the resources needed in terms of staff and material. Also the time allocation for sections of the training programme.

4. Training evaluation

The accreditors will require to see a simplified statement of training objectives, which will be provided to each trainee at the outset of their training in their documentation. An approved type of feedback form shall form a compulsory part of the course material and the analysis of the trainees' response will be the subject of discussion during follow up visits from the accreditors.

5. Certification

Each training centre will be required to maintain a record of trainees attending relevant training programmes and maintain a record of certificates issued under this accreditation scheme. Each certificate will include the relevant national training standard level achieved.

6. Future developments in the training programme

The accreditors will therefore want to satisfy themselves that the staff and guest lecturers are themselves well briefed in new developments in spill response and have the time to participate in self development work. The Nautical Institute sees it as essential that the training centre encourages and maintains a record of real events and critical situations to be used specifically for training purposes. The assessors will require to see such a system established and operated.

7. Safety

Underlying the entire programme will be the requirement to emphasise safe practices. The assessors will require to satisfy themselves that this objective has been met and that:

- The ways being taught are the right and safe ways
- Trainees fully understand the observance of safety rules and regulations where they apply
- Trainees understand their responsibilities towards others

8. Accreditation

The Nautical Institute will normally send a minimum of two accreditors to inspect Oil Spill Response Training Facilities, which will be required to have available all of the necessary documentation to comply with the above requirements.

The team will normally comprise:

- A NI accreditation team leader who will conduct the assessment and satisfy himself that the training is relevant and practical.
- A qualified training officer whose main function will be to advise the team leader about the effectiveness of the training and the way in which it is carried out.

The number of accreditors may be reduced according to assessment and circumstance.

9. The cost

The cost of accreditation will be borne by the centres, which are being accredited on the basis of full cost recovery only for the time, travel and accommodation costs incurred by those conducting the accreditation.

10. Appeals

Where any party wishes to raise an issue, which cannot be resolved under normal circumstances, they may appeal directly to the DECC, Environment Operations Unit in Aberdeen.

11. Approval

The Nautical Institute will accredit the training centre subject to a satisfactory standard being achieved.

The training centre is required to maintain the standard achieved.

Re-accreditation will be required at three-yearly intervals.

The Nautical Institute will keep a register of all training so approved and furnish copies to the Offshore Petroleum Industry Training Organisation.

12. Application

Training centres or oil companies wishing to seek accreditation should contact:

The Nautical Institute, Education
& Training Department
202 Lambeth Road
London SE1 7LQ

Tel 020 7928 1351

Fax 020 7401 2817

email sec@nautinst.org

Course Type: DECC Level 1 - Offshore On-scene Commander (OIM) UK

Guidelines

Any OIM or Offshore Company Rep without formal UK (IMO Level 2 equivalent) NI accredited Oil Spill Response training should complete an Offshore On-scene Commander course

Such courses shall be an approved course attended at any Oil Spill Training Centre accredited on behalf of DECC by the Nautical Institute for offshore response training or through a NI accredited CBT distance learning scheme.

This level of training shall be undertaken every 3 years

Course length – 4 hours

Training levels

Description of requirement mentioned in module

Basic ability to undertake task described and tested in course exercise scenario

Course module undertaken and exercised, capable of controlling task competently

Course Type: DECC Level 1 - Offshore OIM (UK)

Module	Knowledge	Skills	Training level
	Assess situation		
A1	Basic offshore reporting procedures required under MARPOL and OPRC Conventions and UK Legislation	Use of PON1 report form & compile required	**
A2	Quantification of spillage	Find matrix for use with visual observation	*
A3	Potential sources on rig / platform or vessels	Quantify possible amounts of spillage from each	*
	Properties of oil types present	Identify flash points and chance of ignition	*
A4	Activate Contingency plan		
B1	Use of oil pollution emergency plan. Understand the role of the SOSREP, OCU and its procedures	Skilled use of reporting section	***
B2	Knowledge of Company Shore Emergency	Assess, quantify and report	**
	Develop Response Action Plan		
C1	Response options stated in Oil Spill Plan	Use decision trees in Contingency plan	*
	Establish & organise a response structure		
D1	Offshore Field training & exercise programme	Risk assessment of incident	***

Module	Knowledge	Skills	Training level
	Activate Operational Response		
E1	Offshore emergency procedures	Mobilise offshore response teams	*
E2	OIM's right to use in - field dispersant stock Manage and control ongoing response	Principles of dispersant spraying and use of	***
F1	Oil spill behaviour & characteristics	Identify oil type, weather & sea conditions	*
F2	Basic prediction of movement of spills	Vectorial plotting	**
F3	Field safety procedures	Response safety management	***
G1	Deactivate response Assess further release potential and quantify risk Debrief & report	Risk assessment of further spill potentials	**
H1	Finalise details of reason for spill size, actions	Quantification of spill size, reason for spillage, prevention of future spills, assess steps to be taken to stop recurrence. Collect samples & evidence	**

Course Type: DECC Level 2 - Corporate Manager (UK)

Guidelines

Experienced pollution response personnel and senior management personnel who have been associated in this field for over three years, and similarly qualified personnel who have been involved in the management of real oil spill response incidents will be considered sufficiently trained. Personnel at this level, however, shall be updated by undertaking an accredited 4-hour refresher course at periods of not more than 3 years. (DECC expect senior managers without formal training in Oil Spill Response to undertake this module at the time of appointment or prior to holding a Senior Response Manager's duty rota position)

In the interest of competent UK response standards, this should also be undertaken before any person involved is nominated within any Oil pollution emergency plan. Otherwise, persons holding any other approved certification should undertake this up-date training module every 3 years from the date of issue of that certificate.

Course length – 4 hours

Training levels

Description of requirement mentioned in module	*
Basic ability to undertake task described and tested in course exercise scenario	**
Course module undertaken and exercised, capable of controlling task competently	***

Course Type: DECC Level 2 - Corporate Manager (UK)

Module	Knowledge	Skills	Training level
	Assess situation		
A1	Basic offshore reporting procedures required under MARPOL and OPRC Conventions and UK	Use of PON 1 report form & compile required	**
	Activate Contingency plan		
B1	Use of Oil pollution emergency plan. Understand the role of SOSREP and the OCU and how it procedures.	Comply with UK Legislative requirements for	***
B2	Roles of UK Agencies	Itemise the responsibilities of UK Agencies	**
	Develop Response Action Plan		
C1	Identify Insurance and Liabilities arrangements	Understanding of mobilising underwriters/ offshore	*
	Establish & organise a response structure		
D1	Offshore Field training & exercise programme	Risk assessment of incident	***
	Activate Operational Response		
E2	OIM's right to use in - field dispersant stock	Principles of dispersant spraying and use of	**

Module	Knowledge	Skills	Training level
	Manage and control ongoing response		
F2	Basic prediction of movement of spills	Assess potential impacts	*
	Deactivate response		
G1	Identify reasons for cessation	Risk assessment of cessation	**
	Debrief & report		
H1	Finalise details of reason for spill size, actions taken etc		**

Course Type: DECC Level 3 - Onshore Responder (UK)

Guidelines

Any Oil Company designated Duty Onshore Responder having completed any UK level 4, MCA approved course covering “Response to Oil Spills” or any DECC Onshore Manager (40 hour) response course accredited by the Nautical Institute, will be considered to be qualified at this level, as long as any certificate held is appropriately numbered, is recorded and was attended within the last 3 years or has been issued with a refresher certificate.

Any Oil Company designated Duty Onshore Responder holding a comparable certificate issued in another country or by the IMO at level 2, will be considered to be qualified. This will be subject to applicants demonstrating to DECC that they have an understanding of UK legislative and reporting procedures or have attended a UK level 1 On Scene Responder offshore training module or CBT training course as previously described.

Course length – 24 hours

Certificates at this level shall be updated by undertaking a 1-day refresher course at periods of not more than 3 years.

Training levels

Description of requirement mentioned in module	*
Basic ability to undertake task described and tested in course exercise scenario	**
Course module undertaken and exercised, capable of controlling task competently	***

Course Type: DECC Level 3 / Onshore Responder (UK)

Module	Knowledge	Skills	Training level
	Assess situation		
A1	Basic offshore reporting procedures required under MARPOL and OPRC Conventions and UK legislation	Use of PON 1 report form & compile required information. Use of PON 1 to extract the appropriate response. Use of Oil pollution emergency plan decision trees	***
A2	Quantification of spillage	Find matrix for use with visual observation	*
A3	Potential sources on rig / platform or vessels	Question OIM on potential sources and amounts.	***
A4	Properties of oil types present	Identify flash points and chances of ignition	**
	Activate Contingency plan		
B1	Use of Oil pollution emergency plan	Skilled use of reporting section and skilled use of	***
B2	Knowledge of Company Shore Emergency	Assess, quantify and report	***
B3	Response options stated in Oil Pollution Emergency Plan	Use of decision trees in Contingency plan	**

Module	Knowledge	Skills	Training level
	Establish & Organise a response structure		
C1	Mobilisation procedure for Company and Response Contractor's Emergency Response. structure	Assess level of response call-out required Use of Response Contractor's call-out procedure. with MCA National Plan	***
	Develop Response Action Plan Strategy		
D1	Values and use of Aerial Surveillance	Activation procedures for Aerial Surveillance	**
D2	Oil spill behaviour & characteristics, Fate of Spilt Oil	Identify oil type, weather & sea conditions and	**
D3	Oil Spill Tracking methods	Vectorial plotting Use and analysis of Aerial Surveillance results Use of computer bases prediction system	**
D4	Use of Dispersants	Use of dispersant decision tree	***
D5	OIM's right to use in - field dispersant stock	Principles of dispersant spraying	**
D6	Containment and recovery at sea	Assess limitations of use against value in prevailing	**
D7	Oil Recovery vessels	Restrictions & mobilisation procedures	**

Module	Knowledge	Skills	Training level
	Activate Operational Response		
E1	Roles and responsibilities of company and	Role play in Response Exercises	**
E2	The Government decision making process	Establish a joint decision making process between Company/ contractor and Government Agencies (Participate in exercise scenario)	**
E3	Activate a Pollution Response	Participate in a desk top response exercise	**
	Manage and Control ongoing response		
F1	Oil Field safety procedures	Response safety management	***
F2	Potential for Coastal Impact	Assess longer term fate of spill	**
F3	Coastal Protection Strategy	Assess coastal areas and vulnerability	**
F4	Shore line clean up	Locate and mobilise resources	**
F3	Team Management	Identify operational, logistical and domestic	**
F4	Safety at an Oil Spill	Use of Risk Assessment forms and procedures	***

F5	Waste Management & Disposal	Prepare a waste disposal plan	**
Module	Knowledge	Skills	Training level
	Deactivate response		
G1	Assess further release potential and quantify risk	Risk assessment of further spill potentials	**
G2	Effort / benefit analysis	Compile information required	**
G3	Media Management	Prepare justification	***
	Consolidate Costs		
H1	Approval of costs	Prepare a job order and approval system	*
	Debrief & report		
I1	Log keeping	Logging all calls and communication. Preparation	***
I2	Finalise details of reason for spill size, actions	Quantification of spill size, reason for spillage, prevention of future spills, assess steps to be taken to stop recurrence. Collect samples & evidence	***

Course Type: DECC Level 4 - Onshore Responder (IMO level 2 Equivalent)

Guidelines

Any Oil Company designated Duty Manager having completed any UK level 4, MCA approved course covering “Response to Oil Spills” or subsequent Refresher Course accredited by the Nautical Institute, will be considered to be qualified at this level, as long as the certificate held is appropriately numbered, is recorded and was attended within the last 3 years.

Any Oil Company designated Duty Manager holding a comparable certificate issued in another country or by the IMO at level 2 or after completing a subsequent Refresher Course, will be considered to be qualified. This will be subject to applicants demonstrating to DECC that they have an understanding of UK legislative and reporting procedures or have attended a UK level 1 On Scene Responder offshore training module as previously described.

Course length – 32 hours

Certificates at this level shall be updated by undertaking a 1-day refresher course at periods of not more than 3 years.

Training levels

Description of requirement mentioned in module	*
Basic ability to undertake task described and tested in course exercise scenario	**
Course module undertaken and exercised, capable of controlling task competently	***

Course Type: DECC UK 4 / Onshore Responder (IMO level 2 equivalent)

Module	Knowledge	Skills	Training level
	Assess situation		
A1	Basic offshore reporting procedures required under MARPOL and OPRC Conventions and UK legislation	Use of PON 1 report form & compile required information. Use of PON 1 to extract the appropriate response. Use of oil pollution emergency plan decision trees	***
A2	Quantification of spillage	Find matrix for use with visual observation	***
A3	Potential sources on rig / platform or vessels	Question OIM on potential sources and amounts.	***
A4	Properties of oil types present	Identify flash points and chances of ignition	***
	Activate Contingency plan		
B1	Use of Oil pollution emergency plan	Skilled use of reporting section and skilled use of	***
B2	Knowledge of Company Shore Emergency	Assess, quantify and report	***
B3	Response options stated in Oil Pollution Emergency Plan	Use of decision trees in Contingency plan	***

Module	Knowledge	Skills	Training level
	Establish & Organise a response structure		
C1	Mobilisation procedure for Company and Response Contractor's Emergency Response. structure	Assess level of response call-out required Use of Response Contractor's call-out procedure. conjunction with MCA National Plan	***
	Develop Response Action Plan Strategy		
D1	Values and use of Aerial Surveillance	Activation procedures for Aerial Surveillance	***
D2	Oil spill behaviour & characteristics,	Identify oil type, weather & sea conditions and	***
D3	Oil Spill Tracking methods	Vectorial plotting Use and analysis of Aerial Surveillance results Use of computer bases prediction system	***
D4	Use of Dispersants	Use of dispersant decision tree	***
D5	OIM's right to use in - field dispersant stock	Principles of dispersant spraying	**
D6	Containment and recovery at sea	Assess limitations of use against value in prevailing	***
D7	Oil Recovery vessels	Restrictions & mobilisation procedures	**

Module	Knowledge	Skills	Training level
	Activate Operational Response		
E1	Roles and responsibilities of company and	Role play in Response Exercises	***
E2	The Government decision making process	Establish a joint decision making process between Company/ contractor and Government Agencies (Participate in exercise scenario)	***
E3	Activate a Pollution Response	Participate in a desk top response exercise	***
	Manage and Control ongoing response		
F1	Oil Field safety procedures	Response safety management	***
F2	Potential for Coastal Impact	Assess longer term fate of spill	***
F3	Coastal Protection Strategy	Assess coastal areas and vulnerability	***
F4	Shore line clean up	Locate and mobilise resources	***
F3	Team Management	Identify operational, logistical and domestic	**
F4	Safety at an Oil Spill	Use of Risk Assessment forms and procedures	***
F5	Waste Management & Disposal	Prepare a waste disposal plan	**

Module	Knowledge	Skills	Training level
	Deactivate response		
G1	Assess further release potential and quantify risk of further pollution	Risk assessment of further spill potentials	**
G2	Effort / benefit analysis	Compile information required	***
G3	Media Management	Prepare justification	***
	Consolidate Costs		
H1	Approval of costs	Prepare a job order and approval system	**
	Debrief & report		
I1	Log keeping	Logging all calls and communication. Preparation	***
I2	Finalise details of reason for spill size, actions taken etc	Quantification of spill size, reason for spillage, prevention of future spills, assess steps to be taken to stop recurrence. Collect samples & evidence	***

Module	Knowledge	Skills	Training level
	Practical Response		
J1	The use of dispersants	Permission process, dispersant types & uses, -----	***
J2	The use of alternative chemical / biological -----	Identifying suitability of alternatives in a situation	**
J3	The use of Booms	The principles of booming, identifying suitable booms for use, deployment methods, weather sorbent booms	**
J4	The use of Oil Recovery Skimmers	Understand the suitability of skimmers for different -----	**
J5	Assess process for selection of equipment	Given a spill scenario, select the appropriate -----	***
J6	Site safety	Prepare Risk Assessments for clean up operations	**

Module	Knowledge	Skills	Training level
	Practical Exercise		
K1	Plan an equipment response to a spill scenario	Analyse the response requirement for different	***
K2	Gain agreement with all parties on response	Report an assessment of the spill scenario and	***
K3	Inspect the selected equipment in a warehouse	Confirm that the selected equipment is suitable and	***
K4	Practical response exercise	Physically assist in deployment of equipment and	**
I1	Exercise review	Report writing and justification for actions	***