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Health Surveillance for Professional Divers Working in the Offshore Oil and Gas Industry

Entrance Questionnaire

International Marine Contractors Association

Version 3.2

February 2009

Health Surveillance Questionnaire for Professional Divers

Introduction

This is a yearly, voluntary questionnaire concerning your health. The information will be filed as a part of your medical file. At any time you can withdraw your consent to participate in this surveillance. In such a case your information will be filed but not used for company purpose – like statistics. The information will only be handled by the company Health Service and the Occupational Health Doctor. The purpose of the questionnaire is to detect early signs of medical problems that are known to be associated with diving. By doing this, preventative measures can be taken and undue illness avoided.

In case of need for individual follow up the Occupational Health Doctor will contact you.

This is quite a long questionnaire as it allows your occupational health doctor to understand your entire career to date. Any subsequent questionnaire will not be so comprehensive.

Please answer the questions as instructed and otherwise by placing a *cross or number* in the box. If you make a mistake place a single line through the incorrect answer and put a cross or number in the box of the correct answer. Where asked “Yes – number of times” please enter the number of times that you have experienced the problem or issue.

Confidentiality

The information that you provide in this form will be used in two ways:

- 1 - Your Occupational Health Service will use the information under strict confidence to provide work related health surveillance. Any other use of your information that includes your personal identification details can only take place with your written permission. Information which identifies you will not be passed on to line management without your permission. You are free at any time to have a copy of your occupational health record.
- 2 - Health surveillance records are a very important source of information. In the future there might be interest for research on the information gathered on long term effects in divers. No information will be used outside the Occupational Health Service without a specific consent from you. In research cases page two of the questionnaire will be removed so the diver is “un-identified”, and only given a company code.

To be entered by Occupational Health Service

Company Code

Coding of the form allows use of the information without your identity details. Coding information is held by your Occupational Health Service and allows you to track your data through any subsequent study of anonymised data. Coding will be filled in by your Occupational Health Service

SECTION 1 PERSONAL DETAILS (please print or use block capitals)

1.1 - Surname _____

1.2 - First names _____

1.3 - Gender Male Female

1.4 - Date of birth (dd/mm/yyyy) / /

Health Surveillance Questionnaire for Professional Divers

To be entered by Occupational Health Service

Company

Code

TODAY'S DATE (dd/mm/yyyy)

/ /

SECTION 2 LIFESTYLE

Your lifestyle has important implications for your overall health and some factors need to be considered in the interpretation of the questionnaire. Please give the details requested.

2.1 - Which of the following best describes your *current* work status?

Self employed working for a single diving company only <input type="checkbox"/>	Self employed working for more than one diving company only <input type="checkbox"/>	Self employed and also working outside the diving industry <input type="checkbox"/>	Salaried diver with a single diving company <input type="checkbox"/>
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2.2 - How much do you currently weigh?

kg or st lbs

2.3 - How tall are you?

cm or ft ins

2.4 - How old are you?

years

2.5 - Have you smoked more than 100 cigarettes IN TOTAL in your life? No Yes

2.5.1 - if yes, complete the following:

<u>Current Smokers</u>		<u>Ex-Smokers</u>	
		In what year did you stop smoking?	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
How many <i>years</i> in total have you smoked?	<input type="text"/> <input type="text"/>	How many <i>years</i> in total did you smoke?	<input type="text"/> <input type="text"/>
How many <i>cigarettes</i> do you smoke per day?	<input type="text"/> <input type="text"/>	How many <i>cigarettes</i> did you smoke per day?	<input type="text"/> <input type="text"/>

2.6 - During the last 12 months, how often have you drunk 8 units or more on any one occasion? (8 UNITS are equivalent to 4 pints of normal strength beer, lager or cider OR 8 small glasses of wine OR 8 shots of spirit)

Never <input type="checkbox"/>	More than 20 times a month <input type="checkbox"/>	10-20 times a month <input type="checkbox"/>	1-9 times a month, <input type="checkbox"/>	If LESS than monthly how many times a year? <input type="text"/> <input type="text"/>
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Health Surveillance Questionnaire for Professional Divers

SECTION 3 OCCUPATIONAL HISTORY

Every occupation has its own particular health implications. It would be helpful, therefore, for your occupational health doctor to have details of your career to date.

3.1 - Present employment

Please describe each job.

If you work as a diver in different sectors (see section 4.5), please enter each separately.

Job number	Job description	Industry	Start year	Weeks per year
1				
2				
3				
4				
5				

3.2 - Jobs worked in the past – from leaving school (if you have worked as a diver in different sectors please enter these separately)

Job number	Job description	Industry	Start year	Finish year
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Health Surveillance Questionnaire for Professional Divers

SECTION 4 DIVING

Details of the diving you do is useful to find whether any health issue is related to the diving that you do. Where asked for estimates of number of dives, these can be approximate.

Definitions

Air or Nitrox – dives using nitrogen or oxygen mixtures

Mixed gas – dives using helium and/or hydrogen with any equipment including rebreathers

SCUBA – dives using self contained underwater breathing apparatus using air and/or oxygen

SurDO₂ – dives using surface decompression with oxygen breathing

Surface supplied – dives using surface supplied air or nitrox

Mixed gas bounce – Surface orientated dives using helium/oxygen or helium/nitrogen/oxygen

Saturation – Pressure chamber orientated diving with divers stored at pressure

4.1 - Duration of diving career

In what year was your FIRST professional dive?	<input style="width: 20px; height: 20px;" type="text"/>
When did your LAST professional dive end (mm/yyyy)	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> / <input style="width: 20px; height: 20px;" type="text"/>

4.2 - Surface orientated air or nitrox diving

Number of Air / Nitrox Dives			
Number of dives	SCUBA	SurDO ₂	Surface supplied
none	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1 - 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101 – 500	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
501 - 1000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
more than 1000	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimate total number of dives	<input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/>	<input style="width: 20px; height: 20px;" type="text"/>

Depth of Air or Nitrox Dives			
Metres of sea water	never	occasionally	a lot
less than 30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30-50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
more than 50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Health Surveillance Questionnaire for Professional Divers

4.3 - Surface orientated mixed gas diving

Number of Mixed Gas Bounce Dives	
none	<input type="checkbox"/>
1 - 100	<input type="checkbox"/>
101 - 500	<input type="checkbox"/>
more than 500	<input type="checkbox"/>
Estimate total number of dives	<input type="text"/> <input type="text"/> <input type="text"/>

Depth of Mixed Gas Bounce Dives			
Metres of sea water	never	occasionally	a lot
less than 80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80-120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
more than 120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.4 - Chamber orientated mixed gas diving

How many times have you surfaced from saturation?

Number of Days in Saturation	
Total number of days in saturation	
none	<input type="checkbox"/>
1 - 300	<input type="checkbox"/>
301 - 1000	<input type="checkbox"/>
more than 1000	<input type="checkbox"/>
Estimate total number of days	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

Depth of Saturation Dives			
Metres of sea water	never	occasionally	a lot
less than 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100-180	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
more than 180	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.5 - What diving sectors have you worked in?

	In the past year		More than a year ago	
	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Offshore – oil industry	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Coastal or inshore – not oil industry	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Shellfish	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Scientific / archaeological	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Police	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Media	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Recreational instructor	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Military	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Hyperbaric chamber internal attendant	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Compressed air work (caissons/tunnelling)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Health Surveillance Questionnaire for Professional Divers

4.6 – Recreational diving

Have you ever dived recreationally? Yes No

If YES complete the rest of section 4.6.

If NO go to section 4.7

list start year

when was the last time? (mm/yyyy) /

4.7 - Recreational surface orientated air or nitrox diving

Number of Air / Nitrox Dives		
Number of dives	SCUBA	Surface supplied
none	<input type="checkbox"/>	<input type="checkbox"/>
1 - 100	<input type="checkbox"/>	<input type="checkbox"/>
101 – 500	<input type="checkbox"/>	<input type="checkbox"/>
501 - 1000	<input type="checkbox"/>	<input type="checkbox"/>
more than 1000	<input type="checkbox"/>	<input type="checkbox"/>
Estimated total number of dives	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>

Depth of Air or Nitrox Dives			
Metres of sea water	never	occasionally	a lot
less than 30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30-50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
more than 50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.8 – Recreational surface orientated mixed gas diving

Number of Mixed Gas Bounce Dives	
none	<input type="checkbox"/>
1 - 100	<input type="checkbox"/>
101 - 500	<input type="checkbox"/>
more than 500	<input type="checkbox"/>
Estimated total number of dives	<input type="text"/> <input type="text"/> <input type="text"/>

Depth of Mixed Gas Bounce Dives			
Metres of sea water	never	occasionally	a lot
less than 80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80-120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
more than 120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Health Surveillance Questionnaire for Professional Divers

It is important that your occupational health doctor knows whether you have suffered any accidents, illnesses or symptoms relating to your diving

4.9 – Accidents, illness and symptoms related to diving

(A symptom is any sensation or change in bodily or mental function)

While working as a diver have you suffered from any of the following?	No	Yes – number of times
1 - Neurological decompression illness?	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
2 - Cerebral gas embolism?	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
3 - Pain only decompression illness?	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
If yes for 1, 2 or 3, was recompression or treatment gas at pressure given?	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Underwater explosion	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Loss of consciousness while under pressure	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Drilling mud skin burn	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Contaminated breathing gas	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Underwater explosion	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Partial drowning	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Illness preventing you from working during a saturation dive	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
Symptoms of any kind during decompression or within six hours after surfacing not identified as decompression illness or cerebral gas embolism?	<input type="checkbox"/>	<input style="width: 20px; height: 15px;" type="text"/> <input style="width: 20px; height: 15px;" type="text"/>
If yes give details:		

Health Surveillance Questionnaire for Professional Divers

Diving related bone necrosis can cause arthritis of the hip or shoulder joint causing some of the symptoms in section 4.9.1

4.9.1 - At any time

Do you get pain in the groin when walking?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you get pain in the hip when walking?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you get pain in the knee when walking?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does one leg feel shorter than the other?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you walk with a limp?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you get pain in the shoulder with activity?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you get stiffness in the shoulder?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

SECTION 5 NOISE

Excess noise is an important and preventable cause of hearing impairment.

5.1 - In any jobs that you have had to date including diving

Was noise intrusive - like a busy street, vacuum cleaner or crowded restaurant - for most of the working day?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you work in a noisy industry, e.g. construction, demolition or road repair; woodworking; plastics processing; engineering; textile manufacture; general fabrication; forging, pressing or stamping; paper or board making; canning or bottling; foundries?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you have to raise your voice to have a normal conversation when about 2 m apart for at least part of the day?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did noise hinder the use of a communications system?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Were there noises because of impacts (e.g. hammering, drop forging, pneumatic impact tools etc), explosive sources such as cartridge-operated tools or detonators?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you use noisy powered tools or machinery for over half an hour a day?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you have muffled hearing at the end of the day, even if it was better by the next morning?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Have you ever been exposed to gunfire or explosions?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
If yes, was this regular exposure to gunfire or explosions?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Health Surveillance Questionnaire for Professional Divers

5.2

Which of your jobs, including diving, had any of the levels of noise described in section 5.1 above? (insert job numbers from sections 3.1 and 3.2)			

5.3 - While diving, what location had any of the levels of noise described in section 5.1?

	Never	A little of the time	Some of the time	Most of the time	All of the time
In the water	<input type="checkbox"/>				
In the bell	<input type="checkbox"/>				
in the welding habitat	<input type="checkbox"/>				
in the living chambers	<input type="checkbox"/>				

Wearing hearing protection can materially reduce the risk of hearing impairment in the workplace

5.4 – Hearing protection

In your noisy jobs (from section 5.2) did you wear hearing protection?	All of the time	<input type="checkbox"/>
	Most of the time	<input type="checkbox"/>
	Some of the time	<input type="checkbox"/>
	A little of the time	<input type="checkbox"/>
	Never	<input type="checkbox"/>

Certain symptoms may indicate early hearing loss and may indicate that you have an audiogram for further assessment

5.5 – Symptoms of hearing loss and previous hearing problems

Do you have difficulty with your hearing?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you have the radio or television on louder than the rest of the family?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you have difficulty in deciding where sounds come from?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you have difficulty with telephone conversations with either ear?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you suffer from wax in the ears?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Health Surveillance Questionnaire for Professional Divers

5.6 – Other ear problems

Have you ever suffered from -	dizziness or vertigo?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	pain in the ears?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	running ears?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	abscess in the ear?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	pseudomonas ear infection (pyo)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	any other ear infection?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	ear injury or barotrauma?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	perforated ear drum?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	noises or ringing in the ears?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

SECTION 6 VIBRATION

6.1

Have you ever used hand-held vibrating tools, machines or hand held processes in your job?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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If NO go to section 7. If YES continue to section 6.2

Hand Arm Vibration Syndrome

Upper limb exposure to vibration can lead to hand arm vibration syndrome (HAVS) which is also known as vibration white finger. It is a disorder which affects the blood vessels, nerves muscles and joints of the hand, wrist and arms which can become severely disabling if ignored.

HAVS can be avoided by controlling exposure to vibration.

HAVS is reversible if detected early and further exposure to vibration controlled.

Signs to look out for are:

- pain, tingling or numbness in the fingers, hands, wrists and arms;
- in the cold and wet, fingers go white, then blue, then red and are painful;
- you can't feel things with your fingers;
- loss of strength in hands.

Health Surveillance Questionnaire for Professional Divers

6.2 - In any jobs that you have had to date did you operate

Hammer action tools

hammer action tools for more than about one hour per day? Yes No

If no, then for more than about 15 minutes per day? Yes No

Rotary or other action tool

rotary or other action tool for more than about four hours per day? Yes No

If no, then for more than about one hour per day Yes No

6.3

In which jobs, including diving, did you operate hand-held power tools, hand-guided powered equipment or powered machines which process hand held materials. (insert job numbers from sections 3.1 and 3.2)			

6.4

When was the year of first exposure <input type="text"/>	When was the last time you used them? (mm/yyyy) <input type="text"/>
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6.5

Do you have any tingling of the fingers lasting more than 20 minutes after using vibrating equipment?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does one or more of your fingers go numb more than 20 minutes after using vibrating equipment?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you have tingling of the fingers at any other time?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you wake at night with pain, tingling, or numbness in your hand or wrist?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Have your fingers gone white on cold exposure?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
<i>(White means a clear discoloration of the fingers with a sharp edge, often followed by a red flush.)</i>		
If Yes, do you have difficulty rewarming them when leaving the cold?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Are you experiencing any other problems with the muscles or joints of the hands or arms?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do your fingers go white at any other time?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Do you have difficulty picking up very small objects e.g. screws or buttons or opening tight jars?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Health Surveillance Questionnaire for Professional Divers

Previous injury and certain medical conditions and treatments can cause the same symptoms as exposure to vibration and may make an individual more sensitive to the effects of upper limb vibration exposure.

6.6

Have you ever had a neck, arm or hand injury or operation?

Yes No

If so give details

6.7

Have you ever had any serious diseases of joints, skin, nerves, heart or blood vessels?

Yes No

If so give details

6.8

Are you on any long-term medication?

Yes No

If so give details

Health Surveillance Questionnaire for Professional Divers

SECTION 7 SOLVENTS AND CHEMICALS

7.1 - While diving (in the water, bell, welding habitat or living chambers) have you experienced

	In the water		In the bell		in the welding habitat		in the living chambers	
	No	Yes – number of times						
1 petrochemical smell	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
2 hydrogen sulphide smell	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
3 any other smell	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
4 irritation of eyes	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
5 gritty taste in mouth	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
6 lung irritation/cough	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
7 skin irritation	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
8 headache	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
9 nausea	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
10 dizziness	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
11 light-headedness	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						
12 loss of consciousness	<input type="checkbox"/>	<input type="text"/> <input type="text"/>						

7.2

Skin exposure to solvents or chemicals is a preventable cause of occupational dermatitis. Could you answer the questions below to help your occupational health doctor to assess any problem

Do you have asthma?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you have asthma as a child?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Were you wheezy as a child?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Have you ever had hay fever?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Have you ever had eczema?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Health Surveillance Questionnaire for Professional Divers

7.3 - Have you had any of the following on the skin of your fingers, hands, forearms, toes, feet or legs?

redness and swelling	Yes <input type="checkbox"/>	No <input type="checkbox"/>
cracking of skin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
small skin blisters/bubbles/vesicles	Yes <input type="checkbox"/>	No <input type="checkbox"/>
flaking or scaling of skin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
itching with cracks or splits in the skin	Yes <input type="checkbox"/>	No <input type="checkbox"/>
skin infection	Yes <input type="checkbox"/>	No <input type="checkbox"/>
spots, redness or swelling of any other part of the body	Yes <input type="checkbox"/>	No <input type="checkbox"/>

7.4

Do you currently have any of the symptoms mentioned in section 7.3	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you suffer any of these problems for more than three weeks	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did any of these problems occur more than once	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you suffer any of these problems with diving	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Did you suffer any of these problems with your other work	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Does your skin improve with time away from work	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Have you taken time of work because of your skin	Yes <input type="checkbox"/>	No <input type="checkbox"/>

7.5 – Drilling mud

	No	Yes
		number of times
While working as a diver have you found drilling mud inside your diving suit at the end of a dive or shift	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/>

Health Surveillance Questionnaire for Professional Divers

SECTION 8 WELDING

Welding, especially with materials such as stainless steel, is associated with some health effects. Please answer the questions in this section to allow assessment of your exposure to welding fume and welding accidents.

8.1

Have you ever worked as a welder? Yes No

If YES:

list start year

when was the last time you welded? (mm/yyyy) /

how many years have you worked as a welder

If you have worked as a welder please complete the following sections. If not , please go to section 9.

8.2 - What percent of your welding was done in the following work areas?

	Percent	Never
Outdoors?	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
Indoors in a well ventilated area?	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
In a small, poorly ventilated area?	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
In a pressurised welding habitat)?	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
Wet welding – welding in water while diving	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>

8.3

	Never	A little of the time	Some of the time	Most of the time	All of the time
After a welding shift					
Do you cough up brown or black sputum?	<input type="checkbox"/>				
Do you blow brown or black stuff into your handkerchief from your nose?	<input type="checkbox"/>				

Health Surveillance Questionnaire for Professional Divers

8.4 -Over what percent of your welding career have you used the following **personal protective breathing equipment while welding?**

	Percent	Never
Simple dust mask	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
Filter respirator (e.g 3M disposable masks)	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
Filter canister respirator (strap-on mask with replaceable filter canister)	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
Atmosphere supply respirator (e.g. Aga mask)	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>
Other, please name: _____	<input type="text"/> <input type="text"/> <input type="text"/> %	<input type="checkbox"/>

8.5 -At work, have you used any of the following techniques

if yes: how many years and days per year on average have **you used the techniques?**

Please estimate

	Yes	No	Years	Days per year
Manual Metal Arc (MMA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>
Metal Inert Gas (MIG)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>
Tungsten Inert Gas (TIG)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>
Oxyfuel (e.g. oxyacetylene)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>
Flux Cored Arc (FCW)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>
Flame or Arc Metal cutting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>
Other, please name _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>

8.6 - While working as a welder have you suffered any of the following accidents

	No	Yes – number of times
Major electric shock	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Burns (including radiation burns)	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Eye damage (e.g. arc eye, flash, radiation, foreign body)	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Metal fume fever	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Ear damage (for example a perforated eardrum)	<input type="checkbox"/>	<input type="text"/> <input type="text"/>

Health Surveillance Questionnaire for Professional Divers

8.7 - While working as a welder or within six months of working as a welder have you suffered any of the following health effects

	No	Yes – number of times
Cough	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Tight chest	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Wheeze	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Chest infection, bronchitis or pneumonia	<input type="checkbox"/>	<input type="text"/> <input type="text"/>
Chest, jaw or arm pain when walking, climbing stairs or running	<input type="checkbox"/>	<input type="text"/> <input type="text"/>

SECTION 9 FURTHER COMMENTS

9.1 – Previous questionnaires

	No	Yes number of times
Have you filled one of these questionnaires before?	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/>

That completes the questionnaire. Thank you for completing it. If you have any further health concerns that you wish to detail please do so below.

Health Surveillance Questionnaire for Professional Divers

GLOSSARY

arthritis	
inflammation of joints causing pain, disability and joint destruction	9
asthma	
respiratory disorder characterised by wheezing	15
Entrance	
This is the first of a series of health surveillance questionnaires	1
necrosis	
tissue death	9
sputum	
a substance such as saliva, phlegm or mucus coughed up from the respiratory tract	17
Symptoms	
A symptom is any indication of physical or mental abnormality.....	8
units	
1 unit is 8 g or 10 ml of pure alcohol.	3
Wheeze	
a high pitched whistling noise coming from the chest on breathing out	19
wheezy	
making a high pitched whistling noise from the chest when breathing out	15