

مركز أبوظبي للسلامة والصحة المهنية ABU DHABI OCCUPATIONAL SAFETY AND HEALTH CENTER

# Abu Dhabi Occupational Safety and Health System Framework

# (OSHAD-SF)

# **Code of Practice**

CoP 5.0 – Occupational Health Screening and Medical Surveillance

Version 3.1

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# مركــز أبـوظـبــي | ABU DHABI PUBLIC HEALTH CENTRE | للـصـحـة الـعـامـة

**Important Note:** 

(Document Republished for Continued Implementation under Abu Dhabi Public Health Center)

(إعادة نشر الوثيقة لاستمرار التطبيق بإشراف مركز أبوظبى للصحة العامة)









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# 1. Introduction

- (a) This Code of Practice (CoP) applies to all employers and places of business within the Emirate of Abu Dhabi. If requirements of this document conflict with requirements set by another regulatory authority, employers are required to follow the more stringent requirement.
- (b) This CoP identifies specific requirements for occupational health screening/fitness to work and medical surveillance for employees performing any of the job duties found in Appendix 1 or exposed to chemicals/materials listed in Appendix 2 of this CoP.
- (c) Occupational health screening shall be undertaken with regards to the potential exposures expected related to the employees occupation and before an employee is exposed to a hazardous work environment.
- (d) Medical surveillance shall be undertaken after a risk assessment and/or occupational hygiene assessments have been undertaken to assess the extent of the exposure and after other control measures implemented to control exposure to an acceptable level using the principles of risk management and the hierarchy of control.



# 2. Training and Competency

(a) Employers shall ensure that EHS training complies with the requirements of:

- (i) OSHAD-SF Element 5 Training, Awareness and Competency;
- (ii) OSHAD-SF Mechanism 7.0 OSH Professional Entity Registration; and
- (iii) OSHAD-SF Mechanism 8.0 OSH Practitioner Registration.
- (b) Training programs shall be tailor-made to meet the needs of employees performing any of the job duties found in Appendix 1 or exposed to chemicals/materials listed in Appendix 2 of this CoP. Training shall focus on ways to reduce exposures to occupational hazards that could affect the employees' health.
- (c) Employers shall ensure all relevant employees and contractors covered by the requirements of the CoP are informed of the requirements of occupational health screening and medical surveillance.
- (d) Employers shall inform all employees of the requirement of Section 4.0 of this CoP and their right to medical record protection and medical confidentiality.
- (e) Employers shall ensure that person(s) responsible for development and implementation of Occupational Health screening and medical surveillance programs are competent to do so.



### 3. Requirements

#### 3.1 Roles and Responsibilities

#### 3.1.1 Employers

- (a) Employers shall undertake their roles and responsibilities in accordance with the general requirements of OSHAD-SF – Element 1 – Roles, Responsibilities and Self-Regulation Section 3.2.5
- (b) Every employer shall be responsible for performing a risk assessment in accordance with OSHAD-SF – Element 2 – Risk Management to determine the risks associated to job tasks and determine the requirements of their occupational health and medical surveillance program.
- (c) Employers shall maintain medical records and medical confidentiality in accordance with Section 4.0 of this CoP.
- (d) Employers shall arrange for medical surveillance of employees that have been or it is reasonably practicable to believe they have been exposed to a hazardous material if:
  - (i) the material is listed in Appendix 2 and the degree of risk to the health of the employee is significant; or
  - (ii) the employer reasonably believes that:
    - 1. an identifiable adverse effect may be related to exposure;
    - 2. the health effect may happen under the work conditions of the employee;
    - 3. a valid biological or technical technique or test is available to detect the signs of the health effect or a valid biological monitoring procedure is available to detect the material or its metabolite; and
    - 4. other Federal or Local legislation/regulations requires such surveillance to be conducted.
- (e) If the medical surveillance relates to an occupation listed in Appendix 1 the employer shall:
  - (i) arrange for the medical surveillance to be done by a HAAD licensed physician under the supervision of a HAAD licensed Occupational Medicine Specialist; and
  - (ii) ask the physician to give the employee and the employer a medical surveillance report which includes a description of the effects of the material or exposure on the employees' health and the need, if any, for remedial action or treatment; and an explanation of the report.
- (f) Employers with occupational health screening and medical surveillance programs shall use an employee general health history questionnaire to collect, at a minimum, the following information (see Appendix 3 for sample questionnaire):
  - (i) occupational history physical, chemical, biological, radiological, and ergonomic stressors from previous employers;
  - (ii) personal risk factors personal and family history, allergies, and lifestyle;
  - (iii) previous medical conditions;



- (iv) medical history including surgical history or pregnancy in females; and
- (v) immunization history if applicable.
- (g) employers shall communicate the results of the occupational health screening and/or medical surveillance to the employee. This includes:
  - (i) informing employees of all findings and provide them with a copy of medical exam report;
  - (ii) providing any follow up treatment for employment related health problems, if needed;
  - (iii) counselling and education about relevant occupational hazards; and
  - (iv) provide follow up health education to ensure employee understands the health risks of his/her occupation and/or lifestyle habits.
- (h) the employer, or employer provided insurance (if included), shall pay all associated costs for the occupational health screening and medical surveillance. Employees shall not be held responsible for any costs associated with these programs, including time required to undertake the programme/screening or surveillance tests or any other associated travel costs which shall be provided by the employer.

#### 3.1.2 Employees

- (a) Employees shall undertake their roles and responsibilities in accordance with the general requirements of OSHAD-SF – Element 1 – Roles, Responsibilities and Self-Regulation Section 3.2.7.
- (b) Employees shall participate in any medical surveillance program or occupational health screening program if their job tasks or a risk assessment indicates the exposure warrants such screening or surveillance and as required by their employer.
- (c) Employees have a right to decline to take part in occupational health screening or surveillance programs but shall be informed of the consequences by the employer or a qualified physician and evidence of the decision shall be recorded in writing along with the employee's, employer's and physician's signatures.
- (d) Employees shall report to any place required for the screening or surveillance to be conducted as advised by their employer.
- (e) Employees shall report any adverse effects or symptoms associated with their work or exposure to a particular hazard at work to the employer or supervisor which shall be recorded in writing and investigated.
- (f) Employees have a right to request copies of their records or risk assessment results and an explanation of the results in a language they understand through the use of a translator.

#### **3.2** General Requirements for Occupational Health Screening:

(a) For occupations listed in Appendix 1, or any high risk activities as determined by the risk assessment (refer to 3.1.1(b)), occupational health screening and medical examinations shall be conducted to determine:



- (i) if employees are medically and physically able to perform the assigned duties without substantial risk of harm to themselves, others, or the job to be performed (fitness for duty examinations); and
- (ii) to identify pre-existing medical conditions which may be aggravated by workplace hazards or exposures.
- (b) Employers shall also include employees in the occupational health screening program if it is reasonably practicable to believe that:
  - (i) an identifiable adverse effect may be related to the occupation;
  - (ii) the health effect may happen under the work conditions of the employee; and
  - (iii) the employee's occupational activities and tasks may involve a risk to themselves or others shall occupational health screening or medical surveillance not be undertaken.
- (c) An employer shall arrange for occupational health screening of employees.
- (d) The employer shall pay all of the associated costs for the occupational health screening.

#### 3.3 General Requirements for Medical Surveillance:

- (a) Medical surveillance programs shall be based on the results of the risk assessment as required by Section 3.1.1(b) and/or the results of an occupational hygiene survey which warrants such surveillance based upon exposure assessment results.
- (b) In the absence of industrial hygiene and exposure data, a qualified occupational physician licensed by HAAD shall make a decision on the placement of employees into the medical surveillance program based on knowledge of the workplace processes, job requirements, exposures and occupational history of the employee.
- (c) Data collected from medical surveillance shall be evaluated at a minimum annually to determine if the workplace is causing or contributing to employee's injuries or illnesses due to occupational exposures. When data suggests that there is a link, control measures shall be implemented to reduce the risk to as low as reasonably practicable as well as additional medical surveillance if warranted.

#### 3.4 Types of Occupational Health Screening and Medical Surveillance

- (a) Occupational Health Screening/ Baseline Examinations: These examinations are performed before placement in a specific job to medically assess if the employees shall be able to perform the job safely. They may be combined with occupational medical surveillance to record a baseline of values for future comparison. These examinations shall be done before the employee commences work. However, if the individual has already started work, these examinations shall be completed within 30 days of assignment. (Refer Appendix 4 for en example Employment Medical Examination Form.)
- (b) Periodic Medical Surveillance Examinations: Periodic monitoring examinations are conducted with appropriate frequency dependent on the results of risk assessments. Periodic examinations may include an interval history, a physical examination, and/or clinical and laboratory screening tests based on exposures or work place requirements and demands.



- (c) *Termination of Employment Examinations:* These examinations are designed to assess pertinent aspects of an employee's health when the employee leaves employment. Documentation of examination results may be beneficial in assessing the relationship of any future medical problems to an exposure in the workplace.
- (d) *Termination of Exposure Examinations*: These examinations are performed when exposure to a specific hazard has ceased. Exposure may cease when a employee is reassigned, a process is changed, or the employee leaves employment.
- (e) Specific Occupations/Occupational Groups: Some occupations or occupational groups, such as those listed in Appendix 1, have specific job demands and requirements which are important for the tasks or activities of the job to be completed safely and these occupations or groups shall undergo occupational health screening with appropriate tests and follow up medical surveillance done if exposure warrants this.

#### 3.5 Medical Records and Medical Confidentiality:

- (a) Medical records shall be maintained in a secure location where only medical personnel or medical program managers have access to the records.
  - (i) in the event that employers do not have medical personal or a medical program manager, medical records may be maintained at a HAAD licensed medical facility; or
  - (ii) the employer may assign an OSH staff member or other employee the duties of maintaining medical records and ensuring records are secure.
- (b) At no time may medical records be provided to Human Resources, management, or any other representative of the entity as a means to evaluate:
  - (i) the performance of an employee;
  - (ii) if an employee shall be retained or contract renewed unless medically justifiable; or
  - (iii) as a means to determine if an employee shall be promoted.
- (c) Medical records shall not be provided to any person or party outside the employer or employer approved medical provider without the written consent of the employee.
- (d) Medical record data may be used to evaluate the health of employees in general, guide employer sponsored wellness programs, or determine funding of employee sponsored wellness programs. When used for these purposes, the employer shall:
  - (i) remove any data that could be used to identify an employee; and
  - (ii) ensure data of a single employee is not provided as standalone data.
- (e) Insurance claim forms shall be maintained with the same confidentiality as medical records.
- (f) Employee can request a copy of their medical records and a copy shall be provided within five (5) working days. Employees may not be charged for receiving a copy of their medical records.



(g) Employees and medical professionals that have access to employee medical records shall not discuss the contents of the records, or the health of employees to anyone not associated with providing medical care to the employees.



# 4. Record Keeping

- (a) The employer shall maintain an accurate record of each employee undergoing medical surveillance or screening. The employer shall assure that this medical record is maintained for the duration of employment and for a period of 30 years thereafter.
- (b) All records must be retained if they are part of an external investigation or legal proceedings.
- (c) Medical records shall include, but not limited to:
  - (i) doctor's written opinion as to the employee's suitability for employment in specific job role;
  - (ii) any medical complaint by the employee related to exposure to the toxic material or hazardous material;
  - (iii) a copy of any employee exposure monitoring reports which were conducted at an employee's work site;
  - (iv) a copy of the employee's employment history; and
  - (v) medical surveillance and/or screening records and exposure monitoring records shall be available for review by employees and the relevant SRA.



## 5. References

- OSHAD-SF Element 1 Roles, Responsibilities and Self-Regulation
- OSHAD-SF Element 2 Risk Management
- OSHAD-SF Element 5 Training Awareness and Competency
- OSHAD-SF Mechanism 7.0 -OSH Professional Entity Registration
- OSHAD-SF Mechanism 8.0 OSH Practitioner Registration
- US Department of Labor. OSHA 3162-12R 2009. Screening and Surveillance Guide. Available at: URL: http://www.osha.gov/Publications/osha3162.pdf
- Department of Transport (UK). DVLA. Medical Standards for fitness to drive. Available at: URL: http://www.dft.gov.uk/dvla/medical/ataglance.aspx
- UAE General Civil Aviation Authority. Civil Aviation Regulations. Part II. Chapter 5
- CDC 'Yellow Book', USA. Atlanta, GA. Available at URL: http://wwwnc.cdc.gov/travel/yellowbook/2012/table-of-contents.htm
- NFPA. Standard on Comprehensive Occupational Medical Requirements for Fire Departments Standard 1582, USA. Available at URL: http://www.nfpa.org/aboutthecodes/AboutTheCodes.asp?DocNum=1582
- Palmer K, Cox, R and Brown, I. Fitness for Work the Medical Aspect 4th Ed. Oxford University Press. Oxford Medical Publications. 2007
- ILO. Guidelines for Conducting Pre-Sea and Periodic Medical Fitness Examinations for Seafarers (2007)
- Health and Safety Executive (UK). The Medical Examination and Assessment of Divers (MA1). Available at URL: http://www.hse.gov.uk/diving/ma1.pdf
- Workplace Health and Safety Queensland. Workplace Health and Safety Regulations 2008. Schedule 8 Hazardous Materials for which health surveillance shall be supplied. Queensland Australia



# 6. Document Amendment Record

Version	Revision Date	Description of Amendment	Page/s Affected
2.0	February 2012	First Issue	All
	1 <sup>st</sup> July 2016	Change of Logo	All
		Change from AD EHS Center to OSHAD	throughout
3.0		Change of document title: AD EHSMS RF to OSHAD-SF	Throughout
		Acknowledgements deleted	2/3
		Preface Deleted	4
3.0	1 <sup>st</sup> July 2016	Document Withdrawn	All
		Clause 3.1.1(d)(iii) to 3.1.1(d)(vi) renumbered to 3.1.1(e) to (h)	6-9
3.1	18 <sup>th</sup> June 2017	OSHAD-SF – Element 5 – Training, Awareness and Competency added to references	11
		OSHAD-SF – Mechanism 7.0 & 8.0 added to references	11



# Appendix 1: Specified Occupations Requiring Medical Screening

- Professional Drivers (taxi, bus, truck drivers etc.)
- Aviators (Air Crew-pilots, Flight Crew-cabin attendants, Flight Despatcher etc.)
- Health Care Workers (Physicians, Nurses, Nursing Assistants, Dentist, Therapists physiotherapists, occupational therapists, respiratory therapists, Technicians ECG, respiratory, radiographer, laboratory, radiology, sterilization)
- Professional Divers
- Emergency Responders (fire fighters, police, civil defense, ambulance personnel, hazmat emergency responders etc.)
- Sea Farers (Marine Skippers / Captains, Boat Masters and Seaman etc.)



#### **Professional Drivers**

Sub Type:	Group 1: Taxi Driver (1 to 7 passengers)
Workplaces:	Taxi company, Private, Commercial
Health History:	General Health History Questionnaire - Appendix 3
Physical Examination:	Employment Medical Examination Form - Appendix 4
Investigation:	Visual acuity and Colour vision
	Vision Test: Typically 6/9 in better eye
	Colour Vision: Ability to recognize signals
	Seizure free for 7 years with medication
	Malignant tumors of the brain = 1 year off driving
	Cardiac Artery Bypass Graft (CABG) = Cease driving for 4 weeks
Restriction:	Absence of hypoglycaemic episodes
	Acute psychotic disorder, Mania, Schizophrenia; Must cease driving immediately - stable for 3 months can drive
	Alcohol misuse : 6 months with controlled drinking
	Alcohol dependence: 1 y without dependence
	Drug abuse: At least one year without abuse
	Sleep apnoea: If causing excessive sleep (in working hours)
Periodic Medical:	At the time of taking license 18 years to 70 years
	Once every 3 years - no upper limit
References:	Department of Transport (UK). DVLA. Medical Standards for fitness to drive.

Includes: Taxi, truck, heavy equipment - cranes, bulldozers, forklift drivers etc.

Sub Type:	Group 2: Bus, Taxi (8 or more passengers) - Category: D
Workplaces:	Commercial drivers
Health History:	General Health History Questionnaire - Appendix 3
Physical Examination:	Employment Medical Examination Form - Appendix 4
Investigation:	Visual acuity and Colour vision
	Complete Stage 3 of Bruce Protocol
	Vision Test: Typically 6/9 in better eye
Restriction:	Colour Vision: Ability to recognize signals
	Monocular Vision: not allowed to drive
	Seizure free for 10 years without medication
	Malignant tumours of the brain 2 years off driving



	CABG cease driving for 3 months
	Absence of hypoglycaemic episodes
	Acute psychotic disorder, Mania, Schizophrenia;
	Must cease driving immediately require stable for 3 years to drive
	Alcohol misuse : 1 year with controlled drinking
	Alcohol dependence: 3 years without dependence
	Drug abuse: At least one year without abuse
	Sleep apnoea: If causing excessive sleep (in working hours)
Periodic Medical:	At the time of taking license 21 years to 45 years
Periodic Medical.	45 years and older: Medical every 5 years till age 65 years
	65 years and older: Medical annually without upper limit
References:	Department of Transport (UK). DVLA. Medical Standards for fitness to
References.	drive.

Sub Type:	Group 2: Commercial Vehicle 3.5 to 7.5 ton - Category: C
Workplaces:	Commercial drivers
Health History:	General Health History Questionnaire - Appendix 3
Physical Examination:	Employment Medical Examination Form - Appendix 4
	Visual acuity
Investigation:	Colour vision
	Complete Stage 3 of Bruce Protocol
	Vision Test: Typically 6/9 in better eye
	Colour Vision: Ability to recognize signals
	Monocular Vision: not allowed to drive
	Seizure free for 10 years without medication
	Malignant tumours of the brain 2 years off driving
Restriction:	CABG cease driving for 3 months
	Absence of hypoglycemic episodes
	Acute psychotic disorder, Mania, Schizophrenia;
	Must cease driving immediately - Require stable for 3 years to drive
	Alcohol misuse : 1 year with controlled drinking
	Alcohol dependence: 3 years without dependence
	Drug abuse: At least one year without abuse
	Sleep apnea: If causing excessive sleep (in working hours)
Periodic Medical:	At the time of taking license 21 years to 45 years
	45 years and older: Medical every 5 years till age 65 years
	65 years and older: Medical annually without upper limit
References:	Department of Transport (UK) DVLA Medical Standards for fitness to drive.



Sub Type:	Heavy Equipment - eg. Crane, Bulldozer
Workplaces:	Construction, demolition, renovation
Health History:	General Health History Questionnaire - Appendix 3
Physical Examination:	Employment Medical Examination Form - Appendix 4
Investigation:	Visual acuity, Stereoscopic vision
	Colour vision
	Complete Stage 3 of Bruce Protocol
	Vision Test: Typically 6/9 in better eye
	Colour Vision: Ability to recognize signals
	Monocular Vision: not allowed to drive
	Stereopsis: not allowed for crane or forklift operator
	Seizure free for 10 years without medication
Restriction:	Malignant tumours of the brain 2 years off driving
	CABG cease driving for 3 months
	Absence of hypoglycaemic episodes
	Acute psychotic disorder, Mania, Schizophrenia; Must cease driving immediately - Require stable for 3 years to drive
	Alcohol misuse : 1 year with controlled drinking
	Alcohol dependence: 3 years without dependence
	Drug abuse: At least one year without abuse
	Sleep apnoea: If causing excessive sleep (in working hours)
	At the time of taking license 21 years to 45 years
Periodic Medical:	45 years and older: Medical every 5 years till age 65 years
	65 years and older: Medical annually without upper limit
References:	Department of Transport (UK). DVLA. Medical Standards for fitness to drive.
	Palmer K, Cox, R and Brown, I. Fitness for Work the Medical Aspect 4 <sup>th</sup> Ed. Oxford University Press. Oxford Medical Publications. 2007.



#### Aviators

Includes: Air Crew-pilots, Flight Crew-cabin attendants, Flight Despatcher etc.

Sub Type:	Air Crew -Pilots
Workplaces:	Civil Aviation, Commercial Airlines, private planes
Health History:	UAE General Civil Aviation Authority. Application Form for Aviation Medical Certificate.
Physical Examination:	UAE General Civil Aviation Authority. Form for Aviation Medical Certificate Class 1, 2, 3 (require to be Approved Medical Examiner)
	Visual acuity
	Colour Vision: ability to reliably identify red, white, green (normal colour vision not always required)
Investigation:	Hearing (voice test)
	Pulmonary peak flow rate
	EKG (if required by history)
Restriction:	As per UAE General Civil Aviation Authority Policies
Periodic Medical:	As per UAE General Civil Aviation Authority Policies
References:	UAE General Civil Aviation Authority. Civil Aviation regulations. Part II. Chapter 5. Medical provisions for Licensing.

Sub Type:	Flight Crew - Cabin Attendants
Workplaces:	Civil Aviation, Commercial Airlines, private planes
Health History:	UAE General Civil Aviation Authority. Application Form for Aviation Medical Certificate.
Physical Examination:	UAE General Civil Aviation Authority. Form for Aviation Medical Certificate Class 1, 2, 3 (require to be Approved Medical Examiner)
	Visual acuity
	Colour Vision: ability to reliably identify red, white, green (normal colour vision not always required)
Investigation:	Hearing (voice test)
	Pulmonary peak flow rate
	EKG (if required by history)
Restriction:	As per UAE General Civil Aviation Authority Policies
Periodic Medical:	As per UAE General Civil Aviation Authority Policies
References:	UAE General Civil Aviation Authority. Civil Aviation regulations. Part II. Chapter 5. Medical provisions for Licensing.

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Sub Type:	Aircraft Maintenance Engineer
Workplaces:	Civil Aviation, Commercial Airlines, private planes
Health History:	UAE General Civil Aviation Authority. Application Form for Aircraft Maintenance Engineer Medical Certificate
Physical Examination:	UAE General Civil Aviation Authority. Form for Aircraft Maintenance Engineer Medical Certificate (required to be Approved Medical Examiner)
Investigation:	Visual acuity
	Colour Vision: ability to reliably identify red, white, green (normal colour vision not always required)
	Hearing (voice test)
Restriction:	As per UAE General Civil Aviation Authority policies
Periodic Medical:	As per UAE General Civil Aviation Authority policies
References:	UAE General Civil Aviation Authority. Civil Aviation regulations. Part II. Chapter 5. Medical provisions for Licensing.



#### **Health Care Workers**

Includes: Physicians, Nurses, Nursing Assistants, Dentist, Therapists –physiotherapists, occupational therapists, respiratory therapists, Technicians – ECG, respiratory, radiographer, laboratory, radiology, sterilization/CSSD

Sub Type:	Physician
Workplaces:	Hospitals, Clinics, Occupational Health Facilities in different industries, private practice, etc.
Health History:	General Health History Questionnaire - Appendix 3
	Employment Medical Examination Form - Appendix 4
Physical Examination:	Review Health History Questionnaire information and assess any positive findings in more detail.
	Hepatitis Profile (A, B & C) and HIV
Investigations:	Measles Antibodies and Varicella Antibodies
	Chest x-ray
Results of Investigations:	To be provided to Candidate / Employee
Destriction	Hep B e antigen positive
Restriction:	Active Pulmonary Tuberculosis
Periodic Medical:	Once every 3 years till age 59
	Once every year at age 60 and above
References:	CDC 'Yellow Book', USA, Atlanta, GA.

Sub Type:	Nurse, Nursing Assistant
Workplaces:	Hospitals, Clinics, Health Facilities in different industries, etc.
Health History:	General Health History Questionnaire - Appendix 3
	Employment Medical Examination Form - Appendix 4
Physical Examination:	Review Health History Questionnaire information and assess any positive findings in more detail.
	Hepatitis Profile (A, B & C) and HIV
Investigations:	Measles Antibodies and Varicella Antibodies
	Chest x-ray
Results of Investigations:	To be provided to Candidate / Employee
Destriction	Hep B e antigen positive (Nursing Assistants are exempted)
Restriction:	Active Pulmonary Tuberculosis

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	Unable to perform moderate to heavy physical demands	
	BMI of 40 or above with co morbidity	
Periodic Medical:	Once every 3 years till age 59	
	Once every year at age 60 and above	
References:	CDC 'Yellow Book', USA, Atlanta, GA.	

Sub Type:	Dentist	
Workplaces:	Hospitals, Clinics, Private Practice, etc	
Health History:	General Health History Questionnaire - Appendix 3	
	Employment Medical Examination Form - Appendix 4	
Physical Examination:	Review Health History Questionnaire information and assess any positive findings in more detail.	
Investigations:	Hepatitis Profile (A, B & C) and HIV	
	Measles Antibodies and Varicella Antibodies	
	Chest x-ray	
Results of Investigations:	To be provided to Candidate / Employee	
Restriction:	Hep B e antigen positive	
	Active Pulmonary Tuberculosis	
Periodic Medical:	Once every 3 years till age 59	
	Once every year at age 60 and above	
References:	CDC 'Yellow Book', USA, Atlanta, GA.	

Sub Type:	Physiotherapist / Occupational / Respiratory Therapist	
Workplaces:	Hospitals, Clinics, Rehabilitation Centres, etc	
Health History:	General Health History Questionnaire - Appendix 3	
Physical Examination:	Employment Medical Examination Form - Appendix 4	
	Review Health History Questionnaire information and assess any positive findings in more detail.	
Investigations:	Hepatitis Profile (A, B & C) and HIV	
	Measles Antibodies and Varicella Antibodies	
	Chest x-ray	

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Results of Investigations:	o be provided to Candidate / Employee	
Restriction:	Active Pulmonary Tuberculosis	
	Inable to perform moderate to heavy physical demands	
	BMI of 40 or above with co morbidity	
Periodic Medical:	Once every 3 years till age 59	
	Once every year at age 60 and above	
References:	CDC 'Yellow Book', USA, Atlanta, GA.	

Sub Type:	Technicians: ECG, Respiratory, Radiographer	
Workplaces:	Hospitals, Clinics, etc.	
Health History:	General Health History Questionnaire - Appendix 3	
	Employment Medical Examination Form - Appendix 4	
Physical Examination:	Review Health History Questionnaire information and assess any positive findings in more detail.	
	Hepatitis Profile (A, B & C) and HIV	
Investigations:	Measles Antibodies and Varicella Antibodies	
	Chest x-ray	
Results of Investigations:	To be provided to Candidate / Employee	
Restriction:	Active Pulmonary Tuberculosis	
	Unable to perform moderate to heavy physical demands	
	BMI of 40 or above with co morbidity	
Periodic Medical:	Once every 3 years till age 59	
	Once every year at age 60 and above	
References:	CDC 'Yellow Book', USA, Atlanta, GA.	

Sub Type:	Laboratory Technician, Radiology Technician	
Workplaces:	Hospitals, Clinics, Independent Labs etc.	
Health History:	General Health History Questionnaire - Appendix 3	
Physical Examination:	Employment Medical Examination Form - Appendix 4	
	Review Health History Questionnaire information and assess any positive findings in more detail.	



	Hepatitis Profile (A, B & C) and HIV	
Investigations:	Measles Antibodies and Varicella Antibodies	
	Chest x-ray	
Results of Investigations: To be provided to Candidate / Employee		
Restriction:	Active Pulmonary Tuberculosis	
	Unable to perform moderate to heavy physical demands	
Periodic Medical:	Once every 3 years till age 59	
	Once every year at age 60 and above	
References:	nces: CDC 'Yellow Book', USA, Atlanta, GA.	

Sub Type:	Sterilization Technician	
Workplaces:	Hospitals, Clinics etc.	
Health History:	General Health History Questionnaire - Appendix 3	
	Employment Medical Examination Form - Appendix 4	
Physical Examination:	Review Health History Questionnaire information and assess any positive findings in more detail.	
	Hepatitis Profile (A, B & C) and HIV	
Investigations:	Measles Antibodies and Varicella Antibodies	
	Chest x-ray	
Results of Investigations:	To be provided to Candidate / Employee	
	Hep B e antigen positive	
Destrictions	Active Pulmonary Tuberculosis	
Restriction:	Unable to perform moderate to heavy physical demands	
	BMI of 40 or above with co morbidity	
Periodic Medical:	Once every 3 years till age 59	
	Once every year at age 60 and above	
References:	CDC 'Yellow Book', USA, Atlanta, GA.	



#### **Professional Divers**

Sub Type:	Deep Sea Diver	
Workplaces:	Navy, Explorer, Merchants, Police	
Health History:	General Health History Questionnaire - Appendix 3	
	Employment Medical Examination Form - Appendix 4	
Physical Examination:	Electrocardiogram and Spirometry and Audiometry and Step Test	
	Bruce Protocol (optional: if required to assess cardiac fitness)	
	Ischemic heart disease, angina, CABG and Valvular heat disease	
	T.B, Asthma, Fibrotic or Cystic Lug disease,	
Restriction:	Epilepsy, severe head injury, Sever motion sickness	
	Active ENT infection, Stapedectomy, Meniere's	
	Acute psychotic disorder, Mania, Schizophrenia	
	Inflammatory bowel disease, hernia,	
	gall bladder or pancreatic pathology	
	Sickle cell anaemia, thalassemia major,	
	BMI greater than 27	
Investigation:	CBC and Hb and Urine micro	
Periodic Medical:	Initial medical and then annual assessment	
References:	Health and Safety Executive (UK). The Medical Examination and Assessment of Divers (MA1).	



#### **Emergency Responders**

Includes: Fire-fighters, police, civil defence, ambulance personnel, hazmat emergency responders etc.

Sub Type:	Fire Fighter	
Workplaces:	Civil Defence; Industry, Offshore	
Health History:	General Health History Questionnaire - Appendix 3	
Dhusiaal Eugenia stian.	Employment Medical Examination Form - Appendix 4	
Physical Examination:	Assess physical ability to perform the tasks associated with job	
	Spirometry and Electrocardiogram and Audiometry	
Investigation:	Bruce Protocol and Lab tests as per NFPA standard	
	Respirator use medical evaluation if required	
Results of investigations	To be provided to employee	
	Inability to wear Self Contained Breathing Apparatus (SCBA)	
Restriction:	Epilepsy or history of sudden loss of consciousness	
	* refer to NFPA standards regarding restrictions	
	Initial Medical and then annual assessment	
Periodic Medical:	Additional if exposure exceeds permissible exposure limits more than 29 days a year.	
	Termination of employment	
References:	NFPA. Standard on Comprehensive Occupational Medical Requirements for Fire Departments Standard 1582, USA.	
	US Department of Labour. OSHA 3162-12R 2009. Screening and Surveillance Guide.	



#### Sea Farers

Sub Type:	Seafarer	
Workplaces:	Shipping, Marine, Offshore etc.	
Health History:	ILO Guideline	
Physical Examination:	ILO Guideline	
	Seafarers Certificate of Medical Fitness	
Investigation:	ILO Guideline	
Restriction:	ILO Guideline	
Periodic Medical:	Initial Medical	
	Every 3 years up to age 40	
	Every 2 years up to age 50	
	Annually thereafter	
References:ILO. Guidelines for Conducting Pre-sea and Periodic Medical F Examinations for Seafarers (2007).		

Includes: Marine Skippers/Captains, boat masters and seaman etc.



# Appendix 2: Hazardous Materials or Exposures Requiring Medical Surveillance

#### Acrylonitrile

Standard Requirements	
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes – annual <sup>1</sup>
Emergency/exposure examination and tests	Yes
Termination exam	Yes – if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Respiratory, gastrointesti- nal <sup>1</sup> , thyroid, skin, neuro logical (peripheral and central)
Work and medical history	Required for all exams <sup>2</sup>
Chest x-ray	Yes
Pulmonary function test (PFT)	No
Other required tests	Fecal occult blood <sup>1</sup>
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counseling re: exam results, conditions of increased risk	Yes – by physician
Medical removal plan	No



#### Arsenic (Inorganic)

lard Requirements	
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	Yes
Termination exam	Yes – if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Skin, nasal, peripheral nervous system
Work and medical history	Required for all exams <sup>2</sup> with focus on respiratory symptoms; includes smoking history
Chest x-ray	Yes
Pulmonary function test (PFT)	No
Other required tests	Urinary Total Arsenic
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician



Standard Requirements	
Pre-placement exa	am Yes <sup>1, 3</sup>
Periodic exam	Yes – annual <sup>1</sup> or more frequently if determined by physician
Emergency/expos examination and t	
Termination exam	No
Examination inclu special emphasis these body system	on gastrointestinal
Work and medical history	Required for all exams <sup>2</sup> ; special emphasis on pulmonary, cardiovascular, gastrointestinal; standard- ized form required;
Chest x-ray	Yes <sup>1</sup> only for diagnosis certified radiologist or physician with expertise in pneumoconioses re- quired;
Pulmonary function test (PFT)	on FVC, FEV <sub>1</sub>
Other required tes	its No
Evaluation of abili to wear a respirate	-
Additional tests if deemed necessary	Yes <b>y</b>
Written medical o	pinion Yes – physician to employer; employer to employee
Employee counse re: exam results, conditions of increased risk	Iling Yes – by physician; includes informing employee of Increased risk of lung cancer from combined effects of smoking and asbestos exposure
Medical removal p	lan No

#### Asbestos (incl. Synthetic Mineral Fibres and Man-Made Mineral Fibres)

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#### Benzene

Standard Requi	rements	
Pre-pl	acement exam	Yes <sup>1, 3, 4</sup>
Period	lic exam	Yes – annual <sup>1, 4</sup>
-	gency/exposure nation and tests	Yes <sup>1, 4</sup> – includes urinary phenol test
Termi	nation exam	No
specia	ination includes al emphasis on body systems	Hemopoietic; add cardiopul- monary if respiratory protec- tion used at least 30 days/ year, (initially, then every 3 years)
Work histor	and medical y	Required for initial and periodic exams (pre-place- ment exam requires special history) <sup>2</sup>
Chest	x-ray	No
Pulmo test (F	onary function PFT)	Initially and every 3 years if respiratory protection used 30 days/year; specific tester requirements
Other	required tests	CBC, differential, other spe- cific blood tests; repeated as required;
	ation of ability ar a respirator	Yes – if respirators are used
	onal tests if ed necessary	Yes
Writte	n medical opinion	Yes – physician to employer; employer to employee
re: exa condit	oyee counselling am results, tions of used risk	Yes – by physician
Medic	al removal plan	Yes



#### Blood-Borne Pathogens (Hepatitis, B)

5 (1 ) /	
Standard Requirements	
Pre-placement exam	No – must offer Hepatitis B (HBV) vaccine unless already immune or vaccine contraindicated
Periodic exam	No
Emergency/exposure examination and tests	Specific post-exposure moni- toring for employee and source; HBV vaccine;
Termination exam	No
Examination includes special emphasis on these body systems	No
Work and medical history	No
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Yes – post-exposure inci- dent;
Evaluation of ability to wear a respirator	No
Additional tests if deemed necessary	Yes – for post-exposure incident; follow post-exposure protocols
Written medical opinion	Yes – licensed healthcare professional to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes– by licensed healthcare professional; counseling re: HBV vaccine and post- exposure follow-up;
Medical removal plan	No



#### 1,3-Butadiene

l Requirements	
Pre-placement exam	Yes <sup>1, 3, 4</sup>
Periodic exam	Yes <sup>1, 4</sup>
Emergency/exposure	Yes <sup>1, 4</sup> – within 48 hours
examination and tests	of exposure
Termination exam	Yes <sup>4</sup> – if 12 months have
	elapsed since last exam
Examination includes special emphasis on	Liver, spleen, lymph nodes, and skin
these body systems	
Work and medical	Required annually and for
history	all examinations <sup>2</sup> ; standard-
	ized form or equivalent;
	includes comprehensive occupational and health
	history;
Chest x-ray	No
Pulmonary function	No
test (PFT)	
Other required tests	Annually, CBC with differ-
	ential and platelet count;
	also within 48 hrs. after ex-
	posure in an emergency situation and repeated
	monthly for 3 more months
Evaluation of ability	Yes – if respirators are used
to wear a respirator	
Additional tests if	Yes
deemed necessary	
Written medical opinion	Yes – physician or other
	licensed healthcare profes-
	sional to employer and employee
Employee counselling	Yes – by physician or other
re: exam results,	licensed healthcare
conditions of	professional
increased risk	·
Medical removal plan	No
-	



#### Cadmium

Standard Requirements

Pre-placement exam	Yes <sup>1, 3, 4</sup>
Periodic exam	Yes <sup>1, 4</sup>
Emergency/exposure examination and tests	Yes <sup>1, 4</sup>
Termination exam	Yes <sup>3</sup>
Examination includes special emphasis on	Respiratory, cardiovascular (BP), urinary
these body systems	
Work and medical history	Required for pre-placement and periodic exams <sup>2</sup> ; standardized form required
Chest x-ray	Yes
Pulmonary function test (PFT)	FVC, FEV1
Other required tests	Annually <sup>1</sup> , cadmium in urine, beta-2 microglobulin in urine, cadmium in blood, CBC, BUN, serum creatinine, urinalysis;
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician; includes explanation of results, treat- ment, and diet, and discus- sion of decisions re: med- ical removal; effect of smoking on cadmium exposure
Medical removal plan	



#### Creosote

Standard Requirements	
Pre-placement exam	Yes
Periodic exam	Yes – annual
Emergency/exposure examination and tests	Yes <sup>1</sup> – special medical surveillance begins within 24 hours
Termination exam	No
Examination includes special emphasis on these body systems	Exam includes emphasis on the neurological system and Skin noting any abnormal lesions and Evidence of skin sensitisation
Work and medical history	Required for all examina- tions; includes family and occupational history, and environmental factors
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	No
Evaluation of ability to wear a respirator	Yes if respirators are used
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer
Employee counselling re: exam results, conditions of increased risk	No
Medical removal plan	Yes if sensitisation occurs



#### Chromium (VI), Hexavalent

Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	Yes <sup>1</sup>
Termination exam	Yes <sup>3</sup> – unless last exam was less than 6 months prior to date of termination
Examination includes special emphasis on these body systems	Skin especially hands and forearms and respiratory tract
Work and medical history	Required for all exams <sup>2</sup> ; includes past, present and anticipated future exposure; any history of respiratory system dysfunction, asthma, dermatitis, skin ulceration or nasal septum perforation; smoking status and history
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	No
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician
	No
Medical removal plan	INU



#### **Coke Oven Emissions**

ard Requirements	
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	No
Termination exam	Yes – if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Skin
Work and medical history	Required for all exams <sup>2</sup> ; includes smoking history and presence and degree of respiratory symptoms
Chest x-ray	Yes
Pulmonary function test (PFT)	FVC, FEV1
Other required tests	Weight, urine cytology, urinalysis for sugar, albumin, hematuria
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes,
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician; also, employer must inform employee of possible health consequences if employee refuses any required medical exam
Medical removal plan	No


#### **Cotton Dust**

Standard	d Requirements	
	Pre-placement exam	Physical exam not specified; other tests required
	Periodic exam	Physical exam not specified; other tests required <sup>1, 4</sup>
	Emergency/exposure examination and tests	No
	Termination exam	No
	Examination includes special emphasis on these body systems	Pulmonary
	Work and medical history Chest x-ray	Medical history; standardized questionnaire required; No
	Pulmonary function test (PFT)	FVC, FEV <sub>1</sub> , FEV <sub>1</sub> /FVC Employees with specific abnormalities are referred to specialists <sup>1, 4, 5</sup>
	Other required tests	No
	Evaluation of ability to wear a respirator	Yes
	Additional tests if deemed necessary	No
	Written medical opinion	Yes – physician to employer; employer to employee
	Employee counselling re: exam results, conditions of increased risk	Yes – by physician re: results of exam and any medical conditions requir- ing further examination or treatment
	Medical removal plan	Yes – for inability to wear a respirator (6 months)



## **Crystalline Silica**

Standard Requirements	
Pre-placement exam	Physical exam
	other tests required
Periodic exam	Physical exam annual;
	other tests required
Emergency/exposure examination and tests	No
Termination exam	No
Examination includes special emphasis on these body systems	Pulmonary
Work and medical history	Medical history; standardized questionnaire required;
Chest x-ray	No
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub> , FEV <sub>1</sub> /FVC Employees with specific abnormalities are referred to specialists
Other required tests	Yes x ray only for diagnosis
•	certified radiologist
	or physician with expertise
	in pneumoconioses re- quired;
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	No
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician re: results of exam and any medical conditions requir- ing further examination or treatment
Medical removal plan	Yes – for inability to wear a respirator (6 months)



## 1,2-dibromo-3-chloropropane

Standard	Requirements	
	Pre-placement exam	Yes
	Periodic exam	Yes <sup>1</sup>
	Emergency/exposure examination and tests	Yes – male reproductive; repeat in 3 months
	Termination exam	No
	Examination includes special emphasis on these body systems	Reproductive, genitourinary;
	Work and medical	Required for all exams <sup>2</sup> ;
	history	Includes reproductive history;
	Chest x-ray	No
	Pulmonary function test (PFT)	No
	Other required tests	No
	Evaluation of ability to wear a respirator	Yes
	Additional tests if deemed necessary	Yes
	Written medical opinion	Yes – physician to employer; employer to employee
	Employee counselling re: exam results, conditions of increased risk	Yes – by physician
	Medical removal plan	No



# Ethylene Oxide

Standar	d Requirements	
	Pre-placement exam	Yes <sup>1</sup>
	Periodic exam	Yes – annual <sup>1</sup>
	Emergency/exposure examination and tests	Yes <sup>1</sup>
	Termination exam	Yes <sup>1</sup>
	Examination includes special emphasis on these body systems	Pulmonary, skin, neurologic, hematologic, reproductive, eyes
	Work and medical history	Required for all exams; in- cludes reproductive history and special emphasis on some body systems;
	Chest x-ray	No
	Pulmonary function test (PFT)	No
	Other required tests	CBC, white cell count with differential, hematocrit, hemoglobin, red cell count;
	Evaluation of ability to wear a respirator	Yes
	Additional tests if deemed necessary	Yes
	Written medical opinion	Yes – physician to employer; employer to employee
	Employee counselling re: exam results, conditions of increased risk	Yes – by physician
	Medical removal plan	No



# Formaldehyde

andard Requirements	
Pre-placement exam	Yes <sup>1, 4</sup>
Periodic exam	Yes <sup>1, 4</sup>
Emergency/exposure examination and tests	Yes <sup>4</sup>
Termination exam	No
Examination includes special emphasis on these body systems	Evidence of irritation or sen- sitization of skin, respiratory system, eyes; shortness of breath
Work and medical history	Required for all exams <sup>2</sup> ; questionnaire required;
Chest x-ray	No
Pulmonary function test (PFT)	FVC, FEV <sub>1</sub> , FEF should be evaluated if respiratory protection is used
Other required tests	No
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes– by physician; includes information on whether medical conditions were caused by past exposures or emergency exposures
Medical removal plan	Yes



Standard Requirements	
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes – annually or at physician's discretion <sup>1</sup>
Emergency/exposure examination and tests	Yes <sup>1</sup>
Termination exam	Yes – if no exam within 6 months of termination/ reassignment
Examination includes	Determined by physician;
special emphasis on these body systems	
Work and medical history	Yes – with emphasis on symptoms related to han- dling hazardous materials and health hazards, fitness for duty and ability to wear $PPE^2$
Chest x-ray	No – unless determined by physician
Pulmonary function test (PFT)	No – unless determined by physician
Other required tests	No – unless determined by physician
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician
Medical removal plan	No

## Hazardous Waste Operations and Emergency Response (HAZWOPER)

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## Isocyanates

Standard Re	quirements	
Pre	e-placement exam	Physical exam other tests required
Pei	riodic exam	Physical exam annual; other tests required
	ergency/exposure amination and tests	No
Ter	mination exam	No
spe	amination includes ecial emphasis on ese body systems	Pulmonary, skin
	ork and medical tory	Medical history; standardized questionnaire required;
Ch	est x-ray	No
	Imonary function t (PFT)	FVC, FEV1, FEV1/FVC
Oth	ner required tests	No
	aluation of ability wear a respirator	Yes
	ditional tests if emed necessary	No
Wr	itten medical opinion	Yes – physician to employer; employer to employee
re: cor	ployee counselling exam results, nditions of reased risk	Yes – by physician re: results of exam and any medical conditions requir- ing further examination or treatment
Ме	dical removal plan	Yes – for inability to wear a respirator (6 months)



#### Lead

Standard Requirements		
	Pre-placement exam	Yes
	Periodic exam	Yes <sup>1, 4</sup>
	Emergency/exposure examination and tests	Yes <sup>1, 4</sup>
	Termination exam	No
	Examination includes special emphasis on these body systems	Teeth, gums, hematologic, gastrointestinal, renal, car- diovascular (BP), neurologi- cal; pulmonary status if respiratory protection used
	Work and medical history	Required for all exams <sup>2</sup> ; includes reproductive his- tory, past lead exposure, both work/non-work, and history of specific body systems; see standard
	Chest x-ray	No
	Pulmonary function test (PFT)	No – unless deemed neces- sary by physician
	Other required tests	Hemoglobin, hematocrit, ZPP,BUN, serum creatinine, Urinalysis with micro, blood- lead levels, peripheral smear morphology, red cell indices <sup>1, 5</sup> ;
	Evaluation of ability to wear a respirator	Yes
	Additional tests if deemed necessary	Yes
	Written medical opinion	Yes – physician to employer; employer to employee
	Employee counselling re: exam results, conditions of increased risk Medical removal plan	Yes – by physician; includes advising the employee of any medical condition, occupa- tional or non-occupational, requiring further medical examination or treatment Yes

Mercury



#### Standard Requirements

Requiremente	
Pre-placement exam	Yes
Periodic exam	Yes <sup>1, 4</sup>
Emergency/exposure examination and tests	Yes <sup>1, 4</sup>
Termination exam	No
Examination includes special emphasis on these body systems	Eyes, skin, respiratory gastrointestinal, renal, car- diovascular (BP), neurologi- Cal 9CNS and PNS); pulmonary status if respiratory protection used
Work and medical history	Required for all exams <sup>2</sup> ; includes reproductive his- tory, past mercury exposure both work/non-work, and history of specific body systems;
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Urinary and blood inorganic mercury others determined by physician
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician; includes advising the employee of any medical condition, occupa- tional or non-occupational, requiring further medical examination or treatment
Medical removal plan	Yes



## **Methylene Chloride**

lard Requirements	
Pre-placement exam	Yes <sup>1, 4</sup>
Periodic exam	Yes <sup>1, 4</sup>
Emergency/exposure	Yes <sup>4</sup>
examination and tests	
Termination exam	Yes – if no exam within 6 months of termination
Examination includes special emphasis on these body systems	Lungs, cardiovascular (including BP and pulse), liver, nervous, skin; extent of exam determined by exam- iner based on employee's health status, work, and medical history
Work and medical history	Required for all exams; example of work and med- ical history form provided
Chest x-ray	No
Pulmonary function test (PFT)	No – unless deemed necessary by physician or other licensed healthcare professional
Other required tests	Laboratory surveillance may include tests as determined by examiner including "before and after shift tests"; Carboxyheamoglobin
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – by physician or other licensed healthcare profes- sional to employer and Employee of increased risk of harm from combined effects of smoking and Methylene Chloride
Employee counselling re: exam results, conditions of increased risk	Yes – by physician or other licensed healthcare profes- sional
Medical removal plan	Yes



## Methylene di-aniline (MDA)

#### Standard Requirements

	Veeded
Pre-placement exam	Yes <sup>1, 3, 4</sup>
Periodic exam	Yes – annual <sup>1, 4</sup>
Emergency/exposure examination and tests	Yes <sup>1, 4</sup>
Termination exam	No
Examination includes special emphasis on these body systems	Skin, hepatic
Work and medical history	Required for all examinations <sup>2</sup> ; includes past work with MDA and other specific items;
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Liver function tests, urinalysis
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician
Medical removal plan	Yes

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#### Noise

#### Standard Requirements

•	
Pre-placement exam	Baseline audiograms are required within 6 months of exposure at or above 85dB.
Periodic exam	Annual audiometric testing required
Emergency/exposure examination and tests	No
Termination exam	No requirements
Examination includes special emphasis on these body systems	Auditory
Work and medical history	Yes
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Initial and annual audiomet- ric testing <sup>1, 4, 5</sup> ;
Evaluation of ability to wear a respirator	No
Additional tests if deemed necessary	Yes, bone conduction audiometry
Written medical opinion	No
Employee counselling re: exam results, conditions of increased risk	Yes – if standard threshold shift or suspected ear pathology
Medical removal plan	No



# **Organophosphate Pesticides**

•	
Standard Requirements	
Pre-placement exam	Physical exam other tests required baseline Red blood cell and plasma Cholinesterase activity levels <sup>5</sup>
Periodic exam	Physical exam annual;
Emergency/exposure examination and tests	No
Termination exam	No
Examination includes special emphasis on these body systems	No
Work and medical history	Medical history; standardized questionnaire required;
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Yes – if deemed necessary – estimated red cell and plasma cholinesterase activity at end of work day after exposure
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	No
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician re: results of exam and any medical conditions requir- ing further examination or treatment
Medical removal plan	Yes – for inability to wear a respirator (6 months)



# **Respiratory Protection**

otection	
tandard Requirements	
Pre-placement exam	Evaluation questionnaire or exam; follow-up exam when required <sup>5</sup>
Periodic exam	Yes – in specific situations <sup>5</sup>
Emergency/exposure examination and tests	No
Termination exam	No
Examination includes special emphasis on these body systems	Yes <sup>5</sup>
Work and medical history	Yes <sup>2</sup>
Chest x-ray	As determined by physician or other licensed healthcare professional
Pulmonary function test (PFT)	As determined by physician or other licensed healthcare professional
Other required tests	As determined by physician or other licensed healthcare professional
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician or other licensed healthcare profes- sional to employer and employee
Employee counselling re: exam results, conditions of increased risk	Yes – by physician or other licensed healthcare professional
Medical removal plan	No



# Vinyl Chloride

Standard Requirements	
Pre-placement exam	Yes <sup>1</sup>
Periodic exam	Yes <sup>1</sup>
Emergency/exposure examination and tests	Yes
Termination exam	No
Examination includes special emphasis on these body systems	Special attention to detecting enlargement of the liver, spleen or kidneys, or dys- function of these organs and abnormalities in skin, connective tissue and pulmonary system;
Work and medical history	Required for initial and periodic exams <sup>2</sup> ; includes alcohol intake, history of hepatitis, exposure to hepa- totoxic agents, blood transfu- sions, hospitalizations, and work history
Chest x-ray	No
Pulmonary function test (PFT)	No
Other required tests	Blood test for total bilirubin, alkaline phosphatase, SGOT, SGPT and gamma glutamyl transpeptidase
Evaluation of ability to wear a respirator	Yes
Additional tests if deemed necessary	Yes
Written medical opinion	Yes – physician to employer; employer to employee
Employee counselling re: exam results, conditions of increased risk	No
Medical removal plan	Yes



#### Footnotes

<sup>1</sup> Pre-placement and periodic examinations are dependent upon specific factors such as airborne concentrations of the material and/or years of exposure, biological indices, age of employee, amount of time exposed per year.

<sup>2</sup> Standard requires medical and work history focused on special body systems, symptoms, personal habits, and/or specific family, environmental or occupational history.

<sup>3</sup> No examination required if previous examination done within specified time frame (eg., 6 months or 12 months) and provisions of standard met.

<sup>4</sup> Additional physician review: Provisions for referring employees with abnormalities to a specialist as deemed necessary by examiner.

<sup>5</sup> May require specific protocol.



# **Appendix 3: Sample General Health History Questionnaire**

Medical Exam Frequency: Pre-Placement, Annual, Termination

S	t Name	L:	ast Name			Nationality
at	e of Birth (d/	m/y) /		_ Male _ Female	Height cm	Weight: Kg
CC		L HISTORY				
	From To	Occu	pation	WORKE	EXPOSURE (C	heck box if yes)
1				🗌 lonizii	ng Radiation	Dust
2				Cherr	nicals	□ Noise
3				Heavy	y Metals	Industrial Accident / Compensation
ER	SONAL HIS	TORY - Do you	u suffer from or	have you	u had? – (C	heck box if yes)
		-		-	-	
	Rheumatic Fever	Rectal Bleeding	Thyroid Disease	□ M	uscular weakness	/ paralysis
	] High Blood Pressure	🔲 Hernia	Anxiety / Depression	on 🗆 Lo	ost work time due to	o back pain
	Varicose Veins	Venereal Disease	Insomnia	🗆 Ui	nexplained Chronic	fatigue
	Chest Pain	Kidney Disease	Back Trouble	🗆 Irr	ritable or inflammat	ory Bowel disease
	Breathlessness	Renal Colic	Bone Complaint		ost work time due to	o migraines
	] Palpitations	Incontinence	Joint Complaint	Di	iagnosis of depress	sion
	Pneumonia	Frequent Urination	Skin Disease	🗆 Di	iagnosis of Bipolar	Disorder
	] Tuberculosis	Painful Urination	Multiple Sclerosis	🗆 Di	iagnosis of obsessi	ve Compulsive disorder
	Bronchitis	Blood in Urine	Jaundice	🗆 Di	iagnosis of anxiety	or Panic Attacks
	Asthma	Epilepsy	Diabetes		ave you been admit	
	Chronic Cough	Stroke	Poliomyelitis	🗌 Ha		ed any mental and/or
	Sputum with Blood	Migraine	Anemia	Ha	liatric illness/disord ave you ever taken sychiatric meds?	er? and/or been prescribed any
Г	Peptic Ulcer	Loss of Consciousness	Cancer	□ Ha		red any serious head
_		Numbness /	Arthritis		ave you even seen sychologist/Counse	a Psychiatric and/or ellor?
_	] Haemorrhoids	Tingling				
	] Haemorrhoids ] Eye Trouble	Tingling	Fibromyalgia		Orug Reaction :	

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Are you pregnant?  Yes No	Number of Pregnancies	Number of Live Births	

#### **FAMILY HISTORY**

FAMILY	AGE	State of Health / Cause of Death	FAMILY	AGE	State of Health / Cause of Death
Father			Wife / Husband		
Mother			Son(s)		
Brother(s)			Daughter(s)		
Sisters(s)			Number of Children		
Is there a family history of – (Check box if yes)					
Hearth Dis	sease	Anemia	Kidney Disease		Diabetes
High Bloo	d Pressure	Asthma	Stroke		Cancer
Allergy		Tuberculosis	Epilepsy		Mental Disorder



# General Health History Questionnaire – Page 2 of 2

LIFESTYLE	
Daily consumption of tobacco: per day	Average <b>weekly</b> consumption of alcohol:units per week
Exercise type: Minutes per day	Recreational Drugs: Yes No

#### **MEDICAL HISTORY**

Information on <u>Medications</u> taken on a regular <u>or</u> occasional basis over the past <u>two</u> years.					
I have <u>not</u> taken any medications	over the past 2 years	or List as requested below .			
Medication And Dosage	Date Started	Reason for Medication	Are you currently taking this medication?		
			Yes No		
			Yes No		
			Yes No		

#### SURGICAL HISTORY

_	List all Chronic Health Problems, Hospitalizations and Surgeries that you have experienced:					
Date	Date Problem / Hospitalization/Surgery Performed?		Current status related to each health issue			
		Yes	No	& date of any surgery performed		

#### **IMMUNIZATION HISTORY**

Tuberculosis (TB)	Have you ever had active pulmonary TB? No Yes; if 'yes' give date Was it treated and for how long? No Yes Treated for months
(12)	Have you had a BCG vaccine?       No       Yes; if 'yes' give year :         Have you had a TB skin test (Mantoux)?       No       Yes; if 'yes' give date &         Result mm       Mo       Yes; if 'yes' give date &
Hepatitis	Have you ever been diagnosed with Hepatitis (A, B, C)?



	What type of Hepatitis did you have? What was your treatment?
	Have you had any Hepatitis vaccines?  No Yes Which vaccine did you have?
	Dates of each dose :;; and
Measles, Mumps, Rubella	Have you had the vaccine for Measles/Mumps/Rubella? No Yes; if 'yes' give date
Tetanus / Diphtheria	Have you had a booster for Tetanus / Diphtheria?  Never Yes, in the year
Chicken Pox / Varicella	Have you had the Varicella vaccine? INO Yes - Date of each dose &

Please check to make sure you <u>have completed all questions</u> on the two pages of this form. Your medical information cannot be evaluated unless all questions are completed or marked "unknown".

I affirm that the information and responses I have provided are accurate and true to the best of my knowledge.

Signature:	Date (dd/mm/yy):
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# Appendix 4: Sample Employment Medical Examination Form

EMPLOYMENT MEDICAL EXAMINATION FORM								
			Page 1 of 2					
This report is to be	completed by a licensed	d Medical Phys	ician who	perform	ns com	olete physical	exams as a	
-	ice. Please assess and	•		•				
• •	and indicate all current t					g poor congern		
		1				ſ		
Family Name First Nar	First Name	Gender:	٨٩٥	Lloight	t (ama)	Maight (L)	BMI	
	First Name		Age	Height	t (cm)	Weight (kg)	DIVII	
		□Male						
		Female						
EXAMINATION		FINDINGS	COMME	NTS ON	ABNOR	RMAL FINDING	S	
Conorol								
General HAIR								
SKIN								
NAILS								
EYES								
LIGHT REFLEXES								
ACCOMODATION								
NYSTAGMUS								
FUNDI								
		ISHIHARA TEST			EYE TEST			
COLOR VISION								
		OTHER			RT /6 LT /6			
EARS				I				
MEATUS								
EAR DRUMS								
	R / CONVERSATIONAL	Weber						
HEARING TONES	8							
	-	Rinne						
CARDIO – VASCULA PULSE	AR	/						
RHYTHM		/ min						
BLOOD PRESSURE		Systolic /Dias	stolic mn	nhg IN	DICATE	NATURE & DEG	RFF	
HEART SOUNDS								
HEART MURMUR	S							
VARICOSE VEINS	5							
RESPIRATORY								
NASAL PASSAGE				PE	RCUSS	ION		
THYROID								
TRACHEA								
LYMPH NODES								
CHEST SHAPE / MOVEMENT								
BREATH SOUNDS								
ALIMENTARY TEETH				<u> </u>				
TONGUE								
LIVER								

OSHAD-SF - Codes of Practice



SPLEEN							
LYMPHADENOPATHY							
HERNIAL ORIEICES							
ANUS RECTUM / P.R.							
URINARY							
KIDNEYS							
GENITALIA							
MUSCULO - SXELETAL		1					
HANDS							
LIMBS							
BACK							
JOINTS							
INJURIES							
CENTRAL NERVOUS			-	_			
CRANIAL NERVES		I VII	II VIII	III IX	IV X	V XI	VI XII
	T	SI	TR	SUP	KN	AN	PL
REFLEXES	RT.				1		
	LT.						
POWER							
TONE							
CO -ORDINATION							
SENSATION							
EMOTIONAL STABILITY							

	EMPLOYMENT MEDICA	L EXA	MINA	TION		
		Page 2 of 2				
Please complete the re- individual ability to:	quested information, based on your findings	s during t	he hea	alth history and physic	cal exam on this	
	ACTIVITY	Y	Ν	EXPLANATION/FINDINGS		
Ability to stand and walk continuously for 8 - 12 hours per day.						
Ability to bend, stoop & squat repeatedly						
Ability to push, pull and	lift patients					
Ability to lift 12 kg						
Ability to carry 12 kg occasionally & for short periods						
Ability to climb step ladders						
Ability to operate motorized equipment and/or vehicles						
Ability to work 12 hours and to rotate shifts (shift work)						
Ability to sit for extended periods of time						
	Type Surgery			Date (dd/mm/yy)	Current status	
Previous surgery						
🗌 Yes 🛛 No						



Describe chronic conditions, with current status for each:							
1							
2							
3							
4							
5							
	I Have exan	nined the emp	oloyee and in my	/ medical	opinion conside	r that he / she is (ch	neck one):
Physically fit for employment and demands of the job.							
Temporarily unfit, but likely to become fit after recovery from the medical problem identified in the examination result. From a medical aspect, I estimate he / She may be fit for work in weeks.							
MD Name & Stamp:		Signature					
		Date (d/m/y)					
Note: This form is valid for a period of six months from the date of signature							



# **Appendix 5: Sample Seafarers Certificate of Medical Fitness**

# **CERTIFICATE OF MEDICAL FITNESS**

This certificate is issued by the approved medical practitioner of Ministry of Communications to the medical and visual standards of STCW and ILO Convention 1946 (No 73).

Seafarer's Name:	
Seaman's Book Number:	
Date of Expiry of this Certificate:	

I certify that the above mentioned seafarer has undergone a medical examination in compliance with the above regulation and I have found him/her fit for UNRESTRICTED seafaring in the following category:

Category: Deck / Engine / Catering \*

Officer / Rating \*

#### I confirm that:

- His/her hearing and eyesight are satisfactory for the duties to be performed,
- His/her color vision is satisfactory ,
- He/she is fit / for lookout duties.

# **Official Stamp**

Signature and Name of Approv

Signature and Name of Approved Medical Practitioner.

## Date of Examination -----

\*Delete as necessary.

Note :

Medical certificate of seafarers below age 40 - Valid for 5 years.

#### Medical certificate of seafarers above age 40 - Valid for 2 years

مركز أبوظبي للسلامة والصحة المهنية ABU DHABI OCCUPATIONAL SAFETY AND HEALTH CENTER



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