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WORKPLACE SAFETY AND HEALTH ACT (CHAPTER 354A)

WORKPLACE SAFETY AND HEALTH (MEDICAL EXAMINATIONS) REGULATIONS 2011

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In exercise of the powers conferred by section 65 of the Workplace Safety and Health Act, the Minister for Manpower hereby makes the following Regulations:

PART I

PRELIMINARY

Citation and commencement

1. These Regulations may be cited as the Workplace Safety and Health (Medical Examinations) Regulations 2011 and shall come into operation on 10th September 2011.

Definitions

- 2. In these Regulations, unless the context otherwise requires
 - "compressed air" means air that is mechanically raised to a pressure higher than atmospheric pressure at sea level;
 - "designated workplace doctor" means a medical practitioner registered as a designated workplace doctor in accordance with Part III;
 - "hazardous occupation" means any of the occupations referred to in regulation 3;

- "responsible person", in relation to a person employed in any hazardous occupation, means
 - (a) the employer of that person; or
 - (b) the principal under whose direction that person is employed in any hazardous occupation.

Application

- **3.** These Regulations shall apply to all workplaces in which persons are employed in any hazardous occupation, being any occupation involving
 - (a) the use or handling of or exposure to the fumes, dust, mist, gas or vapour of arsenic, cadmium, lead, manganese or mercury or any of their compounds;
 - (b) the use or handling of or exposure to the liquid, fumes or vapour of benzene, perchloroethylene, trichloroethylene, organophosphates or vinyl chloride monomer;
 - (c) the use or handling of or exposure to tar, pitch, bitumen or creosote:
 - (d) the use or handling of or exposure to the dust of asbestos, raw cotton or silica;
 - (e) exposure to excessive noise; or
 - (f) any work in a compressed air environment.

PART II

MEDICAL EXAMINATIONS OF PERSONS EMPLOYED IN HAZARDOUS OCCUPATIONS

Persons to be medically certified fit for employment

4.—(1) It shall be the duty of the responsible person of a person who is to be employed in any hazardous occupation described in regulation 3(a) to (e) to ensure that the person shall undergo a preplacement medical examination by a designated workplace doctor and be certified fit to work in such occupation, not later than 3 months after the date he commences his employment in such occupation.

- (2) It shall be the duty of the responsible person of a person who is to be employed in the hazardous occupation described in regulation 3(f) to ensure that the person shall be medically examined by a designated workplace doctor and certified fit to work in such occupation within 30 days before the date he is to commence his employment in such occupation.
- (3) The medical examination referred to in paragraph (1) or (2) shall
 - (a) consist of the examinations and investigations specified in the Schedule and such other examinations or investigations as the Commissioner may require from time to time in any particular case; and
 - (b) include
 - (i) a clinical examination of the person for symptoms and signs of any diseases that may result from exposure to the hazards of the occupation in which the person is employed; and
 - (ii) an assessment as to whether the person who is to be employed in a hazardous occupation is fit to work in that occupation.

Periodic medical examinations

- 5.—(1) It shall be the duty of the responsible person of a person employed in any hazardous occupation to ensure that the person shall be periodically examined by a designated workplace doctor.
- (2) The periodic medical examinations referred to in paragraph (1) shall
 - (a) consist of the examinations and investigations specified in the Schedule;
 - (b) include
 - (i) a clinical examination of the person for symptoms and signs of any diseases that may result from exposure to the hazards of the occupation in which the person is employed; and

- (ii) an assessment as to whether the person who is employed in a hazardous occupation is fit to continue working in that occupation; and
- (c) take place at the intervals specified in the Schedule.
- (3) Notwithstanding paragraph (2), the Commissioner may, in cases where he considers expedient, require any person to be examined at intervals other than or in addition to those specified in the Schedule.

Other medical examinations

- **6.**—(1) The Commissioner may require any person or category of persons employed in any hazardous occupation to undergo a medical examination other than or in addition to the medical examinations referred to in regulations 4 and 5.
- (2) Where a person employed in any hazardous occupation is required to undergo any audiometric examinations under these Regulations, it shall be the duty of the responsible person of that person to ensure that the audiometric examinations shall be carried out by persons who have undergone a course of training in audiometric screening acceptable to the Commissioner (as specified by the Commissioner at the Ministry of Manpower website).
- (3) Any responsible person who contravenes paragraph (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$1,000 and, in the case of a second or subsequent conviction, to a fine not exceeding \$2,000.

Medical expenses to be borne by responsible person

- 7.—(1) It shall be the duty of the responsible person of a person who is employed or to be employed in any hazardous occupation
 - (a) to arrange, at the expense of the responsible person, all medical examinations and investigations that the person employed or to be employed in any hazardous occupation is required to undergo under these Regulations; and

- (b) to grant paid leave of absence to that person required to undergo any medical examination or investigation under these Regulations.
- (2) It shall be the duty of any person who is required to undergo any medical examination or investigation under these Regulations to ensure that he shall submit himself for such medical examination and investigation.
- (3) Any person who contravenes paragraph (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$1,000 and, in the case of a second or subsequent conviction, to a fine not exceeding \$2,000.

Registers of employees in hazardous occupations

- **8.**—(1) It shall be the duty of the responsible person of a person or persons employed in any hazardous occupation in a workplace to keep registers of such persons.
- (2) The responsible person shall ensure that the registers referred to in paragraph (1) are
 - (a) kept in such form and manner as may be required by the Commissioner;
 - (b) updated at all times such as to show at any time, the particulars of all persons who are currently employed in any hazardous occupation in the workplace and all the persons who had or have been employed in the hazardous occupation in the workplace in the last 5 years; and
 - (c) be produced for inspection upon request by an inspector.
- (3) Any person who contravenes paragraph (1) or (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 and, in the case of a second or subsequent conviction, to a fine not exceeding \$10,000.

Designated workplace doctor to report results of medical examinations to employers

9.—(1) It shall be the duty of the designated workplace doctor to report the results of the medical examination of a person employed in

any hazardous occupation in a workplace to the responsible person of that person.

- (2) The report under paragraph (1) shall be submitted by the designated workplace doctor in a form determined by the Commissioner.
- (3) The responsible person of a person employed in any hazardous occupation shall
 - (a) keep the report of every medical examination of that person employed in a hazardous occupation for a period of at least 5 years from the date of the medical examination; and
 - (b) whenever required by the Commissioner within the period referred to in sub-paragraph (a), make available to the Commissioner the report or a summary of the report, as the Commissioner may specify.
- (4) Any person who contravenes paragraph (1), (2) or (3) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 and, in the case of a second or subsequent conviction, to a fine not exceeding \$10,000.

Designated workplace doctor may recommend suspension from work

- 10.—(1) Where a designated workplace doctor, having regard to the results of the medical examination carried out under these Regulations, is satisfied that the health of a person is likely to be or has been injuriously affected by the person's employment in a hazardous occupation, it shall be the duty of the designated workplace doctor to advise the person that he—
 - (a) should not continue to be employed in that occupation; or
 - (b) be suspended from his work in such hazardous occupation temporarily for such period of time, as may be determined by the designated workplace doctor or permanently.
- (2) Where the designated workplace doctor advises that a person employed in a hazardous occupation be suspended from employment

in such hazardous occupation, it shall be the duty of the designated workplace doctor to —

- (a) complete a certificate of suspension in such form and manner as may be determined by the Commissioner; and
- (b) give a copy of the certificate of suspension to that person who is to be suspended from employment in a hazardous occupation, the responsible person concerned and the Commissioner.
- (3) It shall be the duty of the responsible person of the person named in the certificate of suspension referred to in paragraph (2) to suspend the person from his work in the hazardous occupation.
- (4) Any person named in the certificate of suspension referred to in paragraph (2) or the responsible person may, within 14 days from the date of the certificate of suspension, appeal to the Commissioner against it and the Commissioner's decision shall be final.

Designated workplace doctor may inspect place of work

- 11.—(1) It shall be the duty of the occupier of a workplace to provide all facilities to the designated workplace doctor to inspect the premises of the workplace and any process or work in or on which a person being examined by the designated workplace doctor under these Regulations is or is to be employed.
- (2) It shall be the duty of the responsible person of a person who is employed in any hazardous occupation in a workplace and the occupier of that workplace to provide the designated workplace doctor with all information which is relevant and within their joint knowledge to enable the designated workplace doctor to carry out a proper medical examination of such person under these Regulations.

Application to Vector Control Industry

- **11A.** Where a person required under this Part to undergo any medical examination before 1st June 2013
 - (a) is licensed or certified under the Control of Vectors and Pesticides Act (Cap. 59); and

(b) commenced his employment with a responsible person before 1st January 2013,

a reference in the Schedule to the pre-placement examination for occupations involving the use or handling of or exposure to the liquid, fumes or vapour of organophosphates shall be read as a reference to the last red blood cell acetylcholinesterase estimation which the person was required to undergo under regulation 4 of the Control of Vectors and Pesticides (Registration, Licensing and Certification) Regulations (Cap. 59, Rg 3) as in force before 1st January 2013.

[S 320/2013 wef 01/01/2013]

PART III

REGISTRATION TO ACT AS DESIGNATED WORKPLACE DOCTORS

Application for registration as designated workplace doctor

- **12.**—(1) A person who
 - (a) is a medical practitioner registered under the provisions of the Medical Registration Act (Cap. 174); and
 - (b) has successfully completed and passed a course of training in occupational health acceptable to the Commissioner (as specified by the Commissioner at the Ministry of Manpower website),

may apply to the Commissioner to be registered to act as a designated workplace doctor.

- (2) An application under paragraph (1) shall be in such form and manner as the Commissioner may determine.
- (3) Upon receiving an application under paragraph (1), the Commissioner may
 - (a) if he is satisfied that the applicant is a fit and proper person to be registered as a designated workplace doctor, register the applicant either unconditionally, or subject to such conditions as the Commissioner thinks fit, as a designated workplace doctor; or

- (b) if he is not so satisfied, refuse to register the applicant as a designated workplace doctor.
- (4) The Commissioner may at any time vary or revoke any condition imposed under paragraph (3)(a) or impose new conditions.

Certificate of registration

- **13.**—(1) Upon a medical practitioner being registered as a designated workplace doctor under this Part, the Commissioner shall
 - (a) issue him with a certificate of registration; and
 - (b) record his name and relevant particulars in the register of designated workplace doctors.
 - (2) A certificate of registration shall not be transferable.
- (3) Where a certificate of registration is lost, destroyed or defaced, the holder of the certificate may apply to the Commissioner for a replacement certificate.
- (4) The Commissioner may require an applicant to produce evidence, including a statutory declaration by the applicant, that the certificate of registration issued earlier by the Commissioner has been lost, destroyed or defaced.

Register of designated workplace doctor

14. The Commissioner shall keep a register of all persons registered to act as a designated workplace doctor and shall ensure that the register is updated at all times.

Suspension and cancellation of approval

- **15.**—(1) The Commissioner may suspend for such period as he may determine or cancel the registration under regulation 12 of any person as a designated workplace doctor if
 - (a) the Commissioner is satisfied that the person
 - (i) had obtained or procured his approval by fraud or misrepresentation;

- (ii) has breached any term or condition subject to which the approval was granted; or
- (iii) is no longer a fit and proper person to act as a designated workplace doctor; or
- (b) the Commissioner considers it in the public interest to do so.
- (2) The Commissioner shall, before suspending or cancelling the approval of any person as a designated workplace doctor under paragraph (1)
 - (a) give the affected person notice in writing of his intention to do so;
 - (b) specify a date, not less than 21 days after the date of the notice under sub-paragraph (a), upon which the suspension or cancellation shall take effect; and
 - (c) call upon the affected person to show cause to the Commissioner why registration of the person as a designated workplace doctor should not be suspended or cancelled.
- (3) If the person to whom a notice has been given under paragraph (2)
 - (a) fails to show cause within the period of time given to him to do so or such extended period of time as the Commissioner may allow in any particular case; or
 - (b) fails to show sufficient cause,

the Commissioner shall give notice in writing to that person of the date from which the suspension or cancellation of the approval shall take effect.

(4) A person whose registration as a designated workplace doctor has been suspended or cancelled may, within 14 days after the receipt of the notice referred to in paragraph (2), appeal in writing against the suspension or cancellation to the Minister whose decision shall be final.

Surrender of certificate

- 16.—(1) A person whose registration as a designated workplace doctor has been suspended or cancelled by the Commissioner under regulation 15 shall, within 7 days after the date of suspension or cancellation takes effect, surrender his certificate of registration issued under regulation 13(1)(a), notwithstanding any appeal to the Minister under regulation 15(4).
- (2) Any person who contravenes paragraph (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both.
- (3) The suspension or cancellation ceases to be of effect on the date the Minister determines the appeal in favour of the person whose registration as a designated workplace doctor has been suspended or cancelled.

PART IV

MISCELLANEOUS

Offence

17. Any person who contravenes regulation 4(1) or (2), 5(1), 7(1), 10(1), (2) or (3) or 11(1) or (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

Revocation

18. The Factories (Medical Examinations) Regulations (Cap. 104, Rg 6) are revoked.

Savings and transitional provision

19.—(1) Every person who, immediately before 10th September 2011, is a designated factory doctor approved by the Chief Inspector under Part III of the revoked Factories (Medical Examinations) Regulations, shall continue in such capacity as if he is approved as a designated workplace doctor under regulation 13(1) of these Regulations.

(2) These Regulations shall not affect any medical examination or investigation commenced or pending before 10th September 2011, and every such examination or investigation may be continued and everything which is or is to be done pursuant to every such examination or investigation may be done in all respects after that date as if these Regulations had not been enacted.

THE SCHEDULE

		Regulations 4(3) and 5(2) and (3)
First column	Second column	Third column
Nature of occupation 1. Occupations involving the use or handling of or exposure to the fumes, dust, mist, gas or vapour of —	Types of medical examinations	Pre-placement and periodic medical examinations
(a) arsenic or any of its compounds	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 12 months
	(ii) Urine arsenic examina tion	(ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months
	(iii) Liver function tests including serum bilirubin, alkaline phospha tase, gamma glutamyl transpepti dase, alanine and aspartate amino transfer ase estima tions	(iii) Pre-placement medical examination under regulation 4 only

First column	Second column	Third column
Nature of occupation	Types of medical examinations	Pre-placement and periodic medical examinations
	(iv) A full size chest x-ray examina tion	(iv) Pre-placement medical examination under regulation 4 only
(b) cadmium or any of its compounds	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 12 months
	(ii) Blood cadmium estimation	(ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months
	(iii) Urine Beta ₂ - microglo bulin estimation	(iii) Pre-placement medical examination under regulation 4 and thereafter every 12 months
(c) lead or any of its compounds		
(i) Inorganic lead	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 6 months
	(ii) Blood lead estimation	(ii) Pre-placement medical examination under regulation 4 and thereafter every 6 months
	(iii) Haemoglo bin	(iii) Pre-placement medical examination under regulation 4 and thereafter every 6 months
(ii) Organic lead	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 6 months
	(ii) Urine lead estimation	(ii) Pre-placement medical examination under regulation 4 and thereafter every 6 months

First column	Second column	Third column	
Nature of occupation	Types of medical examinations	Pre-placement and periodic medical examinations	
(d) manganese or any of its compounds	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
	(ii) Urine manga nese estimation	(ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
(e) mercury or any of its compounds	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
	(ii) Urine mercury estimation	(ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
2. Occupations involving the use or handling of or exposure to the liquid, fumes or vapour of —			
(a) benzene	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
	(ii) Urine tt- muconic acid or urine s-phenyl mercaptu ric acid estimation	(ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
	(iii) Haemoglo bin estimation and full blood count	(iii) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
	(iv) Peripheral blood film	(iv) Pre-placement medical examination under	

First column	Second column		Third column		
Nature of occupation	Types of medical examinations			Pre-placement and periodic medical examinations	
				regulation 4 and thereafter every 12 months	
(b) organophosphates	•	Clinical examina ion	(i)	Pre-placement medical examination under regulation 4 and thereafter every 6 months	
	8 1	Red blood cell acetylcho inesterase estimation	(ii)	Pre-placement medical examination under regulation 4 and thereafter every 6 months	
(c) perchloroethylene	•	Clinical examina ion	(i)	Pre-placement medical examination under regulation 4 and thereafter every 12 months	
	t	Urine richloroa cetic acid estimation	(ii)	Pre-placement medical examination under regulation 4 and thereafter every 12 months	
	t i i s s i i s s i i i i i i i i i i i	Civer Gunction eests ncluding serum bilirubin, alkaline bhospha asse, gamma glutamyl transpepti dase, alanine and aspartate amino transfer ase estima cions	(iii)	Pre-placement medical examination under regulation 4 only	

First column

Second column

Third column

Nature of occupation

(d) trichloroethylene

Types of medical examinations

- (i) Clinical examina tion
- (ii) Urine trichloroa cetic acid estimation
- (iii) Liver function tests including serum bilirubin. alkaline phospha tase, gamma glutamyl transpepti dase, alanine and aspartate amino transfer ase estima tions

Pre-placement and periodic medical examinations

- (i) Pre-placement medical examination under regulation 4 and thereafter every 12 months
- (ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months
- (iii) Pre-placement medical examination under regulation 4 only

- (e) vinyl chloride monomer
- (i) Clinical examina tion
- (ii) Liver function tests including serum bilirubin, alkaline phospha tase,

gamma glutamyl

- (i) Pre-placement medical examination under regulation 4 and thereafter every 12 months
- (ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months

THE SCHEDOLE — communed					
	First column	Secon	d column	Third column	
	Nature of occupation		of medical minations transpepti dase, alanine and aspartate amino transfer ase estima tions		placement and periodic nedical examinations
3.	Occupations involving the use or handling of or exposure to tar, pitch, bitumen or creosote	(i)	Clinical examina tion	(i)	Pre-placement medical examination under regulation 4 and thereafter every 12 months
4.	Occupations involving the use or handling of or exposure to the dust of —				
	(a) asbestos	(i)	Clinical examina tion	(i)	Pre-placement medical examination under regulation 4 and thereafter every 36 months
		(ii)	A full size chest x-ray examina tion	(ii)	Pre-placement medical examination under regulation 4 and thereafter every 36 months
	(b) raw cotton	(i)	Clinical examina tion	(i)	Pre-placement medical examination under regulation 4 and thereafter every 12 months
		(ii)	Lung function tests (FEV ₁ and FVC) before and after 6 hours of exposure to cotton	(ii)	Pre-placement medical examination under regulation 4 and thereafter every 12 months

dust on

First column	Second column	Third column	
Nature of occupation	Types of medical examinations the same day	Pre-placement and periodic medical examinations	
(c) silica	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter every 36 months	
	(ii) A full size chest x-ray examina tion	(ii) Pre-placement medical examination under regulation 4 and thereafter every 36 months	
5. Occupations involving exposure to excessive noise	(i) An audiomet ric examina tion (where the air conduc tion is abnormal, to include bone conduc tion testing and auro scopic examina tion)	(i) Pre-placement medical examination under regulation 4 and thereafter every 12 months	
Occupations involving work in a compressed air environment	(i) Clinical examina tion	(i) Pre-placement medical examination under regulation 4 and thereafter —	
		(A) not less than once in every 3 months in respect of working pressures not exceeding one	

bar

First column

Second column

Third column

Nature of occupation

Types of medical examinations

Pre-placement and periodic medical examinations

- (B) not less than once in every one month in respect of working pressures at or exceeding one bar
- (C) not more than 3 days prior to re-employment in a compressed air environment if an employee has
 - (CA) not
 worked in
 a
 compres
 sed air
 environ
 ment for
 more than
 14
 consecu
 tive days
 - (CB) suffered from a ear, nose, throat or respira tory infection
 - (CC) suffered from any illness or injury necessitat ing absence from work for more than 3 consecu tive days

First column

Second column

Third column

Nature of occupation

Types of medical examinations

- (ii) Height, weight and body fat
- estimation
- (iii) An audiomet ric examina tion (where the air conduc tion is abnormal, to include bone conduc tion testing and auro scopic examina

Pre-placement and periodic medical examinations

- (ii) Pre-placement medical examination under regulation 4 and thereafter every 12 months
- (iii) Pre-placement medical examination under regulation 4 and thereafter every 12 months

(iv) Test in a lock

tion)

- (iv) Pre-placement medical examination under regulation 4 only
- (v) A full size chest x-ray examina tion
- (v) Pre-placement medical examination under regulation 4 only
- (vi) Radio graphic examina tion of shoulder, hip and knee joints
- (vi) Pre-placement medical examination under regulation 4 in respect of all working pressures and thereafter every 12 months or just before stopping work whichever is earlier in respect of working pressures at or exceeding one bar

First column	Second column	Third column
Nature of occupation	Types of medical examinations	Pre-placement and periodic medical examinations
	(vii) Electroca diogram for workers who are 35 years of age an above	examination under regulation 4 and thereafter every 12 months
	(viii) Lung function tests (FEV ₁ an FVC)	(viii) Pre-placement medical examination under regulation 4 and thereafter every 12 months

Made this 8th day of September 2011.

LOH KHUM YEAN

Permanent Secretary, Ministry of Manpower, Singapore.

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(To be presented to Parliament under section 65(8) of the Workplace Safety and Health Act).