

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2011/2012

COURSE NAME

: OCCUPATIONAL SAFETY AND HEALTH

COURSE CODE

: BFC 4111

PROGRAMME

: 4 BFF

EXAMINATION DATE : JANUARY 2012

DURATION

: 1 HOUR

INSTRUCTION

ANSWER TWO (2) QUESTIONS

ONLY

THIS PAPER CONSISTS OF SIX (6) PAGES

Q1	HIRARC is a Hazard identification, risk assessment and risk control.				
	(a)	Define what is the meant by hazard, risk and danger.	(9 marks)		
	(b)	Discuss the various methods of identifying hazards at workplace?	(5 marks)		
	(c)	Explain the hierarchy of the control measures.	(6 marks)		
	(d)	List five (5) general groups of hazard.	(5 marks)		
Q2	As a Safety and Health Officer in your workplace, you are responsible for various aspects of safe work environment. You have identified several important issues which must be address effectively.				
	(a)	What is the meant by 'near miss'?.	(2 marks)		
	(b)	What are the differences between 'hazard' and 'risk'?.	(6 marks)		
	(c)	Explain three (3) basic steps that should be taken to ensure a workplace. Provide examples to strengthen your answer.	safe & healthy (10 marks)		
	(d)	List seven (7) objectives and rationale of Occupational Safety and 1994.	Health Act		
			(7 marks)		
Q3	Figure Q3 shows the accident that happen to the sub-contractor and worker. To ensure work activities being carried out safely and healthily, potential hazards need to be identified, assessed and controlled.				
	Based on the statements given, carry out or prepare HIRARC to ensure the hazard is as low as reasonable and practicable (ALARP).				
		,	(25 marks)		

Q4 Based on Figure Q4, list down and evaluate the causes of the potential hazard and the administrative control that should be taken to solve the problems.

(25 marks)

FINAL

SEMESTER/SESSION COURSE NAME

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Sub-contractor, worker found dead in manhole

By Farush Khan

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SHAH ALAM, Sun. — A sub-contractor and his worker were found dead in a five-metre deep manhole along Persiaran Kemajuan in Section 16 here today.

Lim Chin Chuan, 51, from Taman Camp Port Klang and his worker identified only as Masturi, 24, from Jawa Timur, were believed to have died of toxic gas inhalation.

Firemen who went to the scene after receiving a call at 10.58am found Lim's body on top of his assistant in the manhole. They also found a ladder jutting out of the manhole.

Section 15 Fire and Rescue Department officer Borhan Madon said the two might have inhaled toxic gas on Friday while carrying out maintenance work.

The 13-member team pulled out Lim's body from the manhole about 1.25pm and Masturi's body was retrieved 20 minutes later.

The position of the bodies indicated that one of the two could have sought the help of the other after inhaling toxic gas in the manhole.

A car believed to have been driven by the sub-contractor was parked nearby.

The scene attracted a large crowd, causing a traffic jam in the industrial





SUSPECTED TOXIC GAS: Firemen pulling out one of the bodies yesterday.

area.

According to one of Lim's relatives, Lim normally left the house about 7am and returned home about 6pm.

However, relatives were unable to trace Lim's whereabouts until this morning. They lodged a report at the Pandamaran police station about 10am.

The bodies were sent to University Malaya Medical Centre for postmortem.

Figure Q3

FINAL

COURSE NAME

SEMESTER/SESSION : SEMESTER I /2011/2012

: OCCUPATIONAL SAFETY

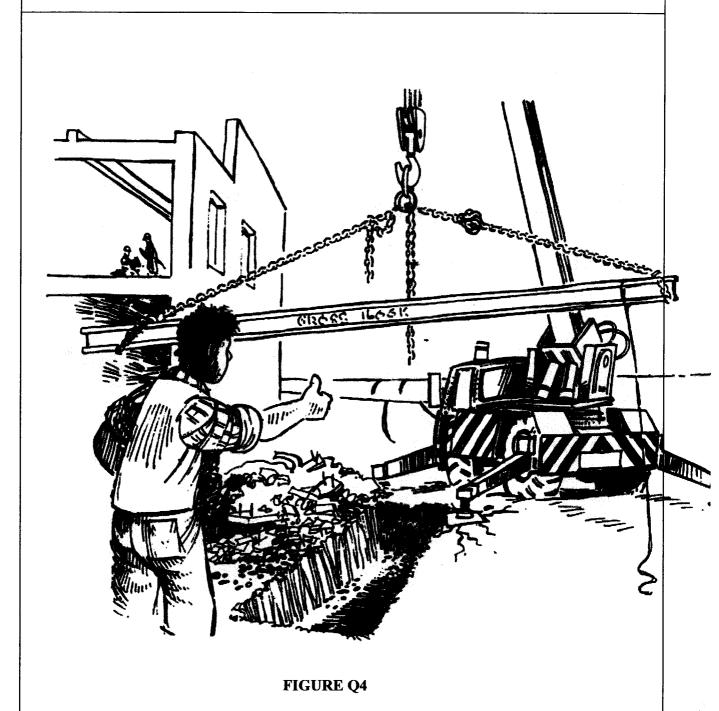
PROGRAMME

: 4 BFF

AND HEALTH

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5

S1	HIRARC adalah mengenalpasti bahaya, menilai dan mengawal risiko.				
	(a)	Terangkan dengan jelas maksud hazard, risiko dan bahaya.	(9 markah)		
S2	(b)	Bincangkan kaedah dalam mengenalpasti hazard di tempat kerja.	(5 markah)		
	(c)	Terangkan struktur hirarki dalam mengukur kawalan risiko	(6 markah)		
	(d)	Senaraikan lima (5) jenis kumpulan hazard	(5 markah)		
	laantar	Sebagai seorang pegawai keselamatan dan kesihatan pekerjaan di tempat kerja, anda bertanggungjawab terhadap beberapa aspek persekitaran keselamatan di tempat kerja. Anda perlu mengenalpasti beberapa isu yang perlu diambil tindakan secara berkesan.			
	(a)	Apakah yang dimaksudkan dengan "kejadian nyaris"	(2 markah)		
	(b)	Nyatakan perbezaan antara "hazard" dan "risiko"	(6 markah)		
	(c)	Terangkan tiga (3) perkara asas yang perlu diambil bagi memastil dan kesihatan ditempat kerja terjaga.	kan keselamatan		
			(10 markah)		
S3 S4	(d)	Senaraikan tujuh (7) objektif dan rationalnya Akta Keselamatan Pekerjaan 1994.	dan Kesihatan		
		Pekerjaan 1994.	(7 markah)		
	peke dan Bero	o-kontraktor serta kan secara selamat emastikan bahaya			
	kem	alangan dapat dikurangkan secara praktikal (ALARP).	(25 markah)		
	Berg berg	hadap hazard yang engurangkan risiko			
	kemalangan.		(25 markah)		