

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2015/2016

COURSE NAME

: OCCUPATIONAL SAFETY AND

HEALTH

COURSE CODE

: BFC 43502/BFC 43501

PROGRAMME CODE : BFF

EXAMINATION DATE : JUNE/JULY 2016

DURATION

: 2 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1 (a) Section 15(2)(b) of Occupational Safety and Health Act (OSHA) 1994 underlines the general duties of employers and self-employed persons to their employees to ensure that as far as practicable, 'making arrangements for the use, handling, storage and transportation of the plant and substances (materials)' to ensure their employees perform their task in a safety and health manner. Explain FOUR (4) measures to be carried out to ensure the compliance to this requirement.

(8 marks)

(b) Differentiate the characteristics of the 'Occupational Safety and Health Act 1994 (OSHA 1994)' as compared to the 'Factories and Machinery Act 1967'.

(12 marks)

Q2 (a) Ergonomic hazards are the most frequently occurring health hazards in construction and can cause painful and disabling injuries to joints and muscles of the workers. Discuss TWO (2) ergonomic risk factors involved in 'masonry works' and propose TWO (2) control measures to eliminate or minimize the risks for each risk factor.

(8 marks)

(b) Potential hazard needs to be identified to control the risk according to the hierarchy of risk control. With examples, explain the hierarchy of risk control.

(12 marks)

Q3 (a) A construction worker was injured due to falling down from the roof of the building. The accident was due to the worker resting at the edge of the roof. The incident occurred after working hours. Give your opinion on who is responsible under OSHA 1994.

(6 marks)

(b) Figure Q3 (b) shows a scenario on a site where the construction works took place. To ensure work activities are carried out safely and healthily, potential hazards need to be identified, assessed and controlled.

After analyzing the photo given, prepare and produce HIRARC form to ensure the hazard is As Low As Reasonably Practicable (ALARP).

(14 marks)

Q4 Table Q4 describes the summary of a fatal case happened at construction site reported to the Department of Occupational Safety and Health (DOSH). You are a member of the incident investigation team appointed by the company. Based on the information given in Table Q4;

Table Q4: Accident Summary

Table 24. Accident bummary				
Date	Summary case	Classification	Contributing	Observation
		case	factors	
26/10/2015	Location:	Fatal	Serious	Failure of
	Construction site,		bodily	hoisting
	KL		injury	system
	Incident happened			,
	as the 1.2-tonne			
	bucket filled with			
	sand was lifted by			
	tower crane.			
	During the process,			
	suddenly bucket			
	fell down and			
	struck the victim			
	under. The incident			
	happened at around			
	1830 hours.			

(a) (i) Identify **TWO** (2) witnesses of the incident.

(2 marks)

(ii) List **TWO (2)** main questions that you are going to ask and examine why you need to ask these questions.

(4 marks)

(b) Identify FOUR (4) types of documents you need to check and explain the importance of each document.

(8 marks)

(c) Propose **THREE** (3) preventive measures to ensure the incident would not happen in the future.

(6 marks)

Q5 (a) In order to carry out risk management effectively, we need to know the exact process. Sketch the process of risk management.

(6 marks)

(b) With the aid of examples, explain the difference between 'Hazard' and 'Danger' at construction work site.

(4 marks)

(c) Classify and describe **FIVE** (5) potential sources of hazards with respect to OSH at any construction site.

(10 marks)

-END OF QUESTIONS-

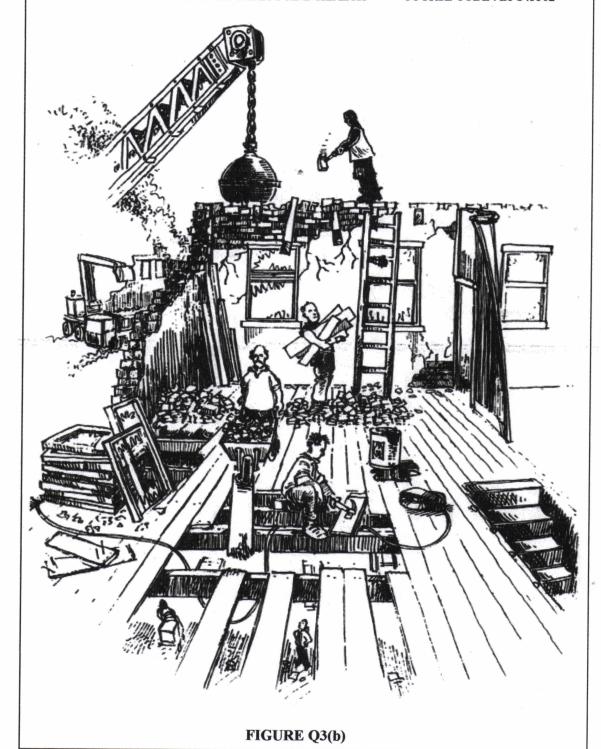
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FINAL EXAMINATION

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