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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER II  
SESSION 2015/2016**

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH

COURSE CODE : BEE 12202

PROGRAMME CODE : BEE / BEV

EXAMINATION DATE : JUNE / JULY 2016

DURATION : 3 HOURS

INSTRUCTION: : i) ANSWERS ALL THE QUESTIONS  
: ii) PLEASE ANSWER IN QUESTION PAPER

THIS QUESTION PAPER CONSISTS OF **THIRTEEN (13)** PAGES

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**PART A : Multiple Choice :**

Q1 Multiple Choice: circle the letter that best answers the question.

The Safety and Health Management System consists of;

- A. A set of interrelated elements that support occupational safety and health policy and objectives
- B. Mechanisms that are in place to achieve safety objectives
- C. Methods that are in place to continually improve safety and health performance
- D. All of the above

(2 marks)

Q2 For each of the following questions, circle the letter that best answers the question.

What are the two most important factors in creating a culture of safe work practices?

- A. Praise and Discipline
- B. Networking and Compliance
- C. Management Commitment and Employee Involvement
- D. Decision Making and Problem Solving

(1 mark)

Q3 (i) To establish a culture of workplace safety, as well as to comply with OSHA IIP Program(Injury and Illness Preventive), it is imperative that communication is not left to chance. Giving and receiving feedback with employees and contractors is vital. Therefore, organizations should implement and maintain a procedure for:

- A. Praise and Discipline
- B. Receiving, documenting and responding to relevant communications from external, interested parties
- C. Instructions for the Safety Suggestion Box
- D. Good Listening Skills

(2 marks)

(ii) Regarding Hazardous Communication, what is each employer not responsible for:

- A. Providing a list of all company hazards to each employee in written form
- B. Identify and list hazardous chemicals in their workplaces
- C. Obtain MSDS's and labels for each hazardous chemical, if not provided by the manufacturer, importer or distributor
- D. Implement a written HAZCOM program, including labels, MSDS's and employee Training
- E. Communicate hazard information to employees through labels, MSD's and formal training programs

(2 marks)

(iii). Three important Hazard Identification processes are:

- A. Audits conducted by OSHA
- B. Walkaround Inspections
- C. Comprehensive Survey
- D. Observations
- E. A,B and C
- F. B, C and D

**PART B: TRUE or FALSE**

Q4 For each statement below, circle **True** or **False**.

(i) A Safety and Health Management System costs an employer more money, but it's worth it.

**True False**

(1 mark)

(i) One benefit of implementing an effective Safety and Health Management System is that employee morale goes up.

**True False**

(1 mark)

(ii) The shipyard environment is more hazardous than most work environments.

**True False**

(1 mark)

(iii) To be most effective, safety and health must be balanced with, and incorporated into, an organization's other core business processes.

**True False**

(1 mark)

(iv) A systematic approach to safety seeks a long-term solution rather than a one-time fix.

**True False**

(1 mark)

Q5 For each statement below, circle **True** or **False**.

- (i) Your Safety Procedure Manual should provide the required documentation conveying to your workforce what safe work practices should be followed and how to follow them.

**True False**

(1 mark)

- (ii) Your Safety Procedure Manual must be written by a certified OSHA professional.

**True False**

(1 mark)

- (iii) The entire Safety Procedure Manual must be accessible (within 50 feet) to employees.

**True False**

(1 mark)

Q6 **True or False:** For each statement below, circle **True** or **False**.

- (i) Every Emergency Preparedness and Response Plan will be the same, regardless of industry or location.

**True False**

(1 mark)

- (ii) An Emergency Preparedness and Response Plan should have the home phone number of your local OSHA representative.

**True False**

(1 mark)

- (iii) A staging area is an area where employees should gather during an emergency.

**True False**

(1 mark)

- (iv) To ensure effective document control, there should be one copy of the Emergency Preparedness and Response Plan in each shop, in a central location.

**True False**

(1 mark)



**PART C : FILL in the BLANK, IDENTIFY and CIRCLE**

Q7 For each safety “responsibility” listed in the left column, identify and match who it best applies to in the right column. For Management use “M”, for Supervisor use “S” and for Employee use “E”.

	<u>Responsibility</u>	<u>Who</u>	
(i)	Create and drive the company culture	<input style="width: 50px; height: 20px;" type="text"/>	(1 mark)
(ii)	Stop a co-worker from working on the deck plate in an unsafe manner	<input style="width: 50px; height: 20px;" type="text"/>	(1 mark)

Q8 **Identify and Circle:** When providing safety training, OSHA has **six( 6)** documentation requirements. From the word bank below, circle those **six (6)**.

Department	Participant education level	Type of training	Length of time with company
Participant ethnicity	Number of hours of training	Verification that a person attended, such as a signature	Participant Job Title(s)
Date of the training	The OSHA standard that correlates to the training	Class Level Beg./Inter./Adv	Who attended (name)

(2 marks)

Q9 **Fill in the Blank:** For each sentence below, write the best word or words from the work bank that correctly completes the sentence. Note, not all words in the Word Bank will be used and none will be used more than once.

Word Bank

Competence	Subcontractor	Orientation Training	Forklift Training
Training	Supervisors	Long-Term Employees	Replacing
Confined Space	Ability	Safety Technicians	Integrated

- (i) \_\_\_\_\_ is a standardized requirement for an individual to properly perform a specific job. (2 marks)
- (ii) \_\_\_\_\_ refers to the acquisition of knowledge, skills, and competencies as a result of the teaching of vocational or practical skills and knowledge that relate to specific useful competencies. (2 marks)
- (iii) Training for \_\_\_\_\_ should emphasize the importance of their role in visibly supporting the safety and health program and setting a good example. (1 mark)
- (iv) \_\_\_\_\_ is a training topic not often found in many industries but often found in the shipyard. (1 mark)
- (v) Safety training is most effective when \_\_\_\_\_ with a company's overall training in performance requirements and job practices. (1 mark)
- (vi) \_\_\_\_\_ should be provided to both employees and contractors. (1 mark)

**Q10 Put In Order:** Below are the steps used in conducting a Job Safety Analysis. Place them in the correct order by putting the number 1 in front of the first step, the number 2 in front of the second step, and so forth.

- (i) \_\_\_ Observing the task (2 marks)
- (ii) \_\_\_ Breaking the task down into activities or steps

(2 marks)

(iii) \_\_\_ Analyzing each step for safety or operational needs

(2 marks)

(iv) \_\_\_ Recommending procedures to meet those needs

(2 marks)

Q11 **Matching:** Regarding Hazard Controls, use the following table to complete questions by filling in the “Type” below:

If I am an....	Then write .....
Engineering Control	<b>E</b>
Administrative Control	<b>A</b>
Personnel Protective Equipment	<b>P</b>
Interim Control	<b>I</b>

(i) **I am** tape holding down wiring

.....

(1 mark)

(ii) **I am** a procedure limiting the time you can wear a respirator

.....

(1 mark)

(iii) **I am** a hard hat

.....

(1 mark)

(iv) **I am** a ventilation hood removing smoke in a confined space

.....

(1 mark)

Q12 **Matching:** Regarding the Accident Investigation and Corrective Action Process, use the following table to complete the questions below:

Controlling the Scene	<b>C</b>
Gathering Data	<b>G</b>
Analyzing Data	<b>A</b>
Writing the Final Report	<b>W</b>
Implementing Corrective Action	<b>I</b>

	<b>Step in the process</b>	<b>Process</b>
(i)	Give an account of the accident--sequence of events, injuries, extent of damage, accident type and source.	<input data-bbox="1067 461 1188 551" type="checkbox"/> (1 mark)
(ii)	Review all photos, drawings, interview material and other information collected at the scene.	<input data-bbox="1067 582 1188 672" type="checkbox"/> (1 mark)
(iii)	Stabilize existing hazards. This will prevent further injuries and identify if you need more help.	<input data-bbox="1067 689 1188 779" type="checkbox"/> (1 mark)
(iv)	Identify the who, what, where, and when of the situation.	<input data-bbox="1067 797 1188 887" type="checkbox"/> (1mark)
(v)	Training may be helpful.	<input data-bbox="1067 904 1188 994" type="checkbox"/> (1mark)

Q13 The electric current is safe to be touched with bare hands at:

- (A) 1mA - 5mA
- (B) 6mA – 15mA
- (C) 16mA – 30 mA
- (D) 31mA and above

(1 mark)

Q14 Which of the following hazards could be classified as a Psychological Hazard?

- (A) Stress
- (B) Repeated exposure to unnatural posture and movement
- (C) Wrong design of workstation
- (D) Exposure to corrosive substance

(1 mark)

Q15 The following are sources of chemical hazards,

- I. Bacteria
- II. Mists
- III. Dusts
- IV. Fumes

- (A) I and II
- (B) I, II, and III
- (C) II, III and IV
- (D) I, II, III and IV

(1 mark)

Q16 The risk from electrical shock can be prevented or minimized if the person:

- (A) Regularly attend the necessary electrical course
- (B) Aware of circuitry design
- (C) Ensuring using the good condition electrical item
- (D) Possess a license to handle the equipment

(1 mark)

Q17 You find a ladder that is damaged. What should you do?

- (A) Try and mend the damage.
- (B) Don't use it and report the damage at the end of your shift.
- (C) Don't use it and make sure that others know about the damage.
- (D) Use ladder if you can avoid the damaged part

(1 mark)

**PART D**

Q18 By using HIRARC form given, conduct HIRARC activities for **ten(10)** major hazards as shown in the picture as in **Figure Q18**.



HIRARC FORM							
1. Hazard Identification				2. Risk Analysis			3. Risk Control
No.	Work Activity	Hazard	Which can cause/effect	Likelihood	Severity	Risk	Recommended Control Measures
1							(2 marks)
2							(2 marks)
3							(2 marks)

HIRARC FORM							
1. Hazard Identification				2. Risk Analysis			3. Risk Control
No	Work Activity	Hazard	Which can cause/effect	Likelihood	Severity	Risk	Recommended Control Measures
4							(2 marks)
5							(2 marks)
6							(2 marks)

HIRARC FORM							
1. Hazard Identification				2. Risk Analysis			3. Risk Control
No.	Work Activity	Hazard	Which can cause/effect	Likelihood	Severity	Risk	Recommended Control Measures
7							(2 marks)
8							(2 marks)
9							(2 marks)
10							(2 marks)

-END OF QUESTIONS -

Πανεπιστήμιο Κύπρου  
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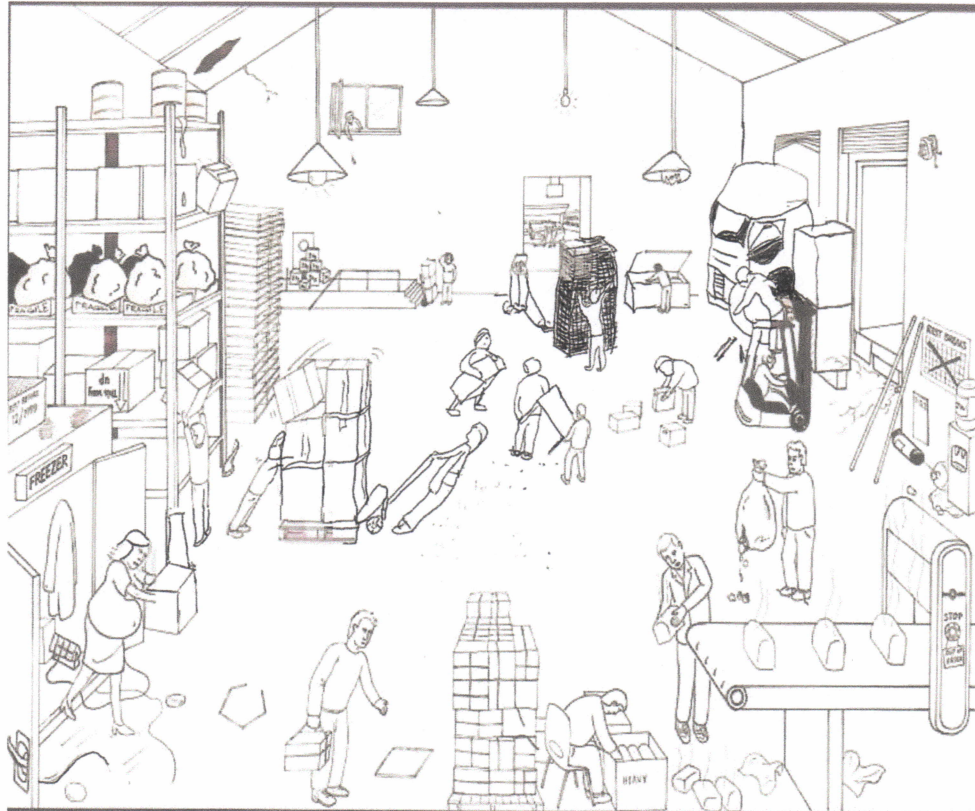
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**FIGURE Q18**