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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER II
SESSION 2023/2024

COURSE NAME : OCCUPATIONAL SAFETY & HEALTH
COURSE CODE : BPA 32202
PROGRAMME CODE : BPD
EXAMINATION DATE : JULY 2024
DURATION : 2 HOURS
INSTRUCTIONS :
1. ANSWER ALL QUESTIONS
2. THIS FINAL EXAMINATION IS CONDUCTED VIA
 Open book
 Closed book
3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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- Q1**
- (a) List with an example **FIVE (5)** categories of hazards and its health effects.
(10 marks)
 - (b) Identify **THREE (3)** non-mechanical hazards associated with the use of machinery.
(3 marks)
 - (c) Define
 - (i) Risk management
(1 mark)
 - (ii) Risk assessment
(1 mark)
 - (d) Describe **TWO (2)** methods in identifying hazards at the risky workplace.
(4 marks)
- Q2** The hierarchy of risk control is a systematic approach used in occupational health and safety to minimize or abolish exposure to hazards. It is structured into several levels of control that should be considered in sequence to control risks effectively.
- (a) Discuss **SIX (6)** elements in the hierarchy of risk control with an example for each.
(18 marks)
 - (b) Prepare **THREE (3)** risk control to reduce the high level of noise exposure at the workplace.
(9 marks)
 - (c) Prepare **THREE (3)** risk control to minimize the exposure of infectious disease at the workplace.
(9 marks)

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- Q3** An accident occurred in a hotel kitchen where a chef slipped his foot while he carried a box of peeled potatoes when he passed by a deep fryer. This had resulting him to fall and while he is trying to balance himself, he accidentally plunged his arm into the hot oil in the deep fryer. The chef suffered full thickness burns to his hand and arm, also few burns in his face due to the oil splashing onto him. He had to undergo a surgery and had to take time off from work due to serious injuries, which he needs 5 months to recover.

An investigation was carried out and the team found out that there had been problems with the workplace environment – there is a frequent water pooling on the floor around dishwasher, vegetable preparation area and steamers area. Feedback from co-workers had mentioned that the accident had occurred due to leaks and mis-operation of the dishwasher by the worker himself. Additionally, there were 2 cases of such accident reported previously for the past 2 years subsequently, which happened to other co-workers with minor burn and less severe injuries.

Based on the above case,

- (a) Identify **TWO (2)** hazards and its health effects. (4 marks)
- (b) Determine **TWO (2)** causes of the above accident according to the Petersen Accident Theory. (6 marks)
- (c) Discuss **THREE (3)** principles of accident investigation. (6 marks)
- (d) Elaborate **FIVE (5)** steps in conducting an accident/ incident investigation. (10 marks)

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Q4 Figure Q4.1 illustrate a chronology of an accident related to electrical appliance use.

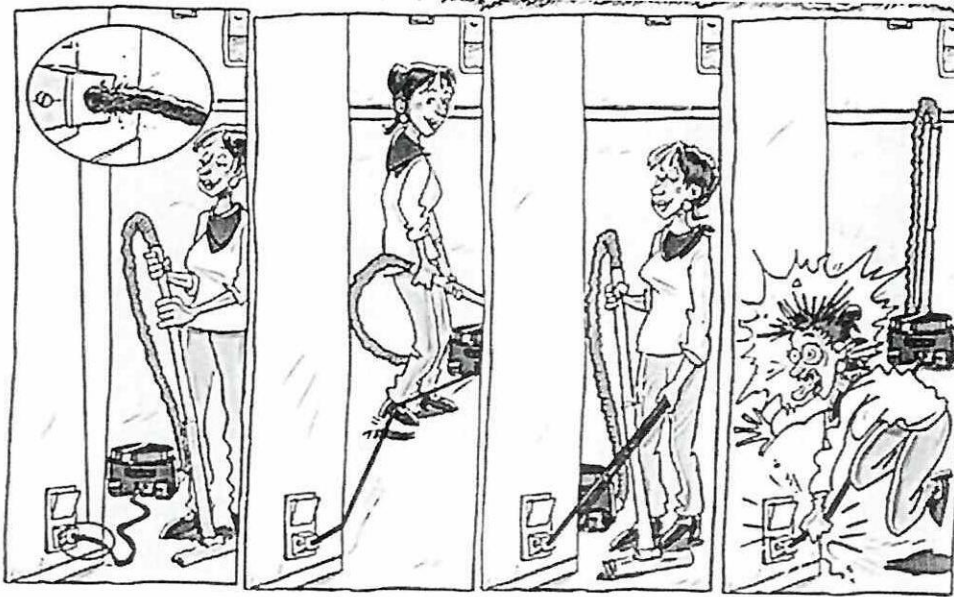


Figure Q4.1 The electrical shock

Based on Figure Q4.1,

- (a) Interpret the following term
 - (i) Accident (3 marks)
 - (ii) Near miss (3 marks)
 - (iii) Unsafe condition (3 marks)
- (b) Analyse **TWO (2)** causes of accident. (6 marks)
- (c) Propose **ONE (1)** risk control that could be implemented to avoid the accident. (4 marks)

-END OF QUESTIONS-

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