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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2018/2019**

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH
COURSE CODE : BNP 20402/BNQ20302
PROGRAMME CODE : BNA/BNB/BNC/BNQ
EXAMINATION DATE : DECEMBER 2018/JANUARY 2019
DURATION : 2 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

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THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

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- Q1.** a) Explain in detail **FOUR (4)** objectives of Occupational Safety and Health Act (OHS 1994). (8 marks)
- b) Illustrate and explain a model of OHS-Management system (OHSAS 18001) based on the PDCA loop. (9 marks)
- c) Carry out **FOUR (4)** Safety and Health Program based on the occupational safety and health policy given in **Figure Q1**. (8 marks)
- Q2.** As a safety officer, you are assigned to prepare the Job Safety Analysis (JSA) for the process of moving a heavy equipment from receiving storage area to working area using forklift. To ensure work activities being carried out safely and healthy, potential hazard need to be identified, assessed and controlled.
- a) Elaborate **FIVE (5)** potential hazard during the moving process. (10 marks)
- b) Analyze the working process by using risk assessment method. (10 marks)
- c) Generate JSA based on the process in **Q2 (a)** and **Q2 (b)**. (5 marks)
- Q3.** **Figure Q3** shows the construction activity for a high rise building. One of the activity is scaffolding work.
- a) Prepare a typical activities that is necessary to be considered by supplier to control and prevent physical injury in scaffolding work activity. (5 marks)
- b) Analyze **FIVE (5)** typical physical hazard for the whole construction activity. (10 marks)
- c) Prepare HIRARC statements to demonstrate the implementation of safety and health culture in construction activities in **Figure Q3** (10 marks)

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(10 marks)

- Q4.** a) Describe **FOUR (4)** examples of near miss category incident in moving activity in a construction work. (8 marks)

- b) Based on your near miss incident in Q4 (a), develop a Cause Effect Analysis and explain why near miss incident happened. (9 marks)
- c) Propose **FOUR (4)** preventive actions to make sure the near miss incident will not occur in the workplace. (8 marks)

- END OF QUESTIONS -

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**PENGERANG INTEGRATED COMPLEX
HEALTH, SAFETY & ENVIRONMENT POLICY**

Pengerang Integrated Complex (PIC) is committed to conduct our activities in a responsible manner that protects the safety and health of our employees and contractors and prevent damage to properties.

PIC shall take proactive steps to protect the environment and to use natural resources efficiently.

The objective of this policy shall be achieved through:

- Complying with relevant HSE Regulatory requirements and adhering to applicable standards and procedures
- Ensuring that the facilities we design, build and operate are in accordance with regulatory requirements and industry best practices
- Regularly reviewing our activities to reduce HSE risks
- Implementing HSE plans and safe working requirements
- Maintaining emergency preparedness and response capability
- Continuously engaging with key stakeholders on relevant HSE aspects

We require all our employees and contractors to strictly adhere to this policy at all times.

Juniwati Bt Rahmat Hussin
Vice President & Venture Director
of Pengerang Integrated Complex

1 September 2013

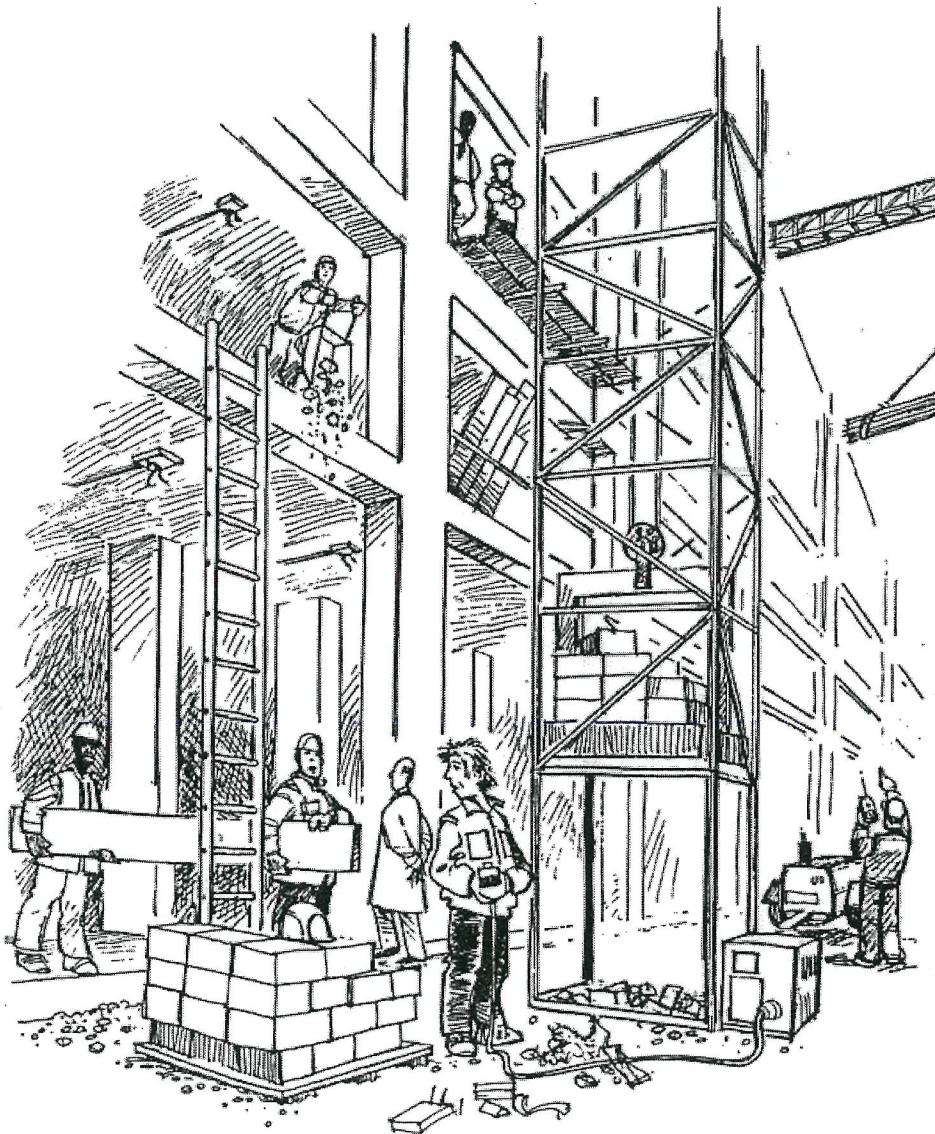


Figure Q1: Safety Policy

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Figure Q3: Construction Activity