

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION (TAKE HOME) SEMESTER I SESSION 2020/2021

COURSE NAME

: WORKPLACE HAZARD ANALYSIS

COURSE CODE

BNS 10303

PROGRAMME CODE :

BNS

EXAMINATION DATE :

JANUARY/FEBRUARY 2021

DURATION

3 HOURS

INSTRUCTION

ANSWERS FOUR (4) QUESTIONS

ONLY

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

TERBUKA

CONFIDENTIAL

Q1 (a) Define term:

i HIRARC

ii. JSA

iii. HAZOP

iv. BOWEC

v. FTA

(10 marks)

(b) Explain the purpose of HIRARC.

(5 Marks)

(c) UTHM is committed to providing a healthy and safe working and learning environment sound practices in the conduct of university activities. Design a checklist for the prevention of accidents at workplace.

(10 Marks)

Q2 (a) Based on the Figure Q2 (a), list FIVE (5) hazards that exist in this workplace. (5 marks)

(b) Based on the answer in Q2 (a), analysis only THREE (3) hazard in this workplace using JSA technique.

(8 marks)

(c) As a health and safety representative your role is to work proactively (this means taking action before hazards become a problem) to prevent workers from being exposed to occupational hazards. Identify and describe common rules for good work practices in order to ensure a safe and healthy workplace.

(12 marks)

Q3 (a) Figure Q3 (a) shows a workplace where a variety of hazards can be found. Describe FIVE (5) hazard in this workplace.

(10 Marks)

(b) Warnings do not prevent exposure to a hazard, but they do provide a visual or audible indicator to warn people of potential danger. Give Five (5) examples of warnings that can explain the hazards at this workplace.

(5 marks)

(c) Based on your answer in Q3 (a), prepare HAZOP analysis should be taken to avoid these incidents.

(10 Marks)

2

CONFIDENTIAL



CONFIDENTIAL

BNS 10303

- Q4 HAZOP is one famous technique in workplace hazard analysis;
 - (a) Discuss the various methods of identifying hazards at workplace.

(7 marks)

(b) Explain the hierarchy of the control measures.

(6 marks)

(c) Determine the differences between hazard identification, risk assessment and risk control in a table format.

(12 Marks)

- END OF QUESTIONS -

TERBUKA

FINAL EXAMINATION

SEMESTER/SESSION : SEM 1/2020/2021 COURSE NAME : WORKPLACE HA : WORKPLACE HAZARD ANALYSIS PROGRAMME CODE: BNS COURSE CODE: BNS 10303

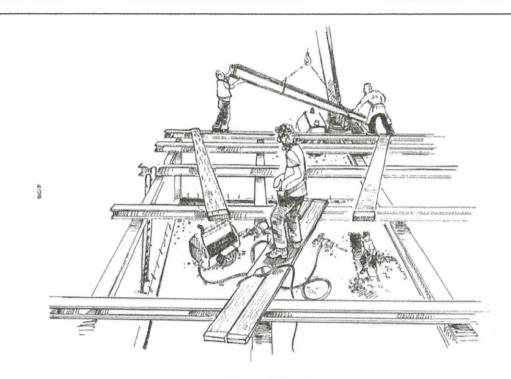


Figure Q2(a)



Figure Q3 (a)

CONFIDENTIAL

