

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2022/2023

COURSE NAME

INCIDENT INVESTIGATION AND

CAPA

COURSE CODE

: BNS 20803

PROGRAMME CODE :

BNS

EXAMINATION DATE :

JULY / AUGUST 2023

DURATION

: 3 HOURS

:

INSTRUCTION

1. ANSWERS ALL QUESTIONS.

2. THIS FINAL EXAMINATION IS CONDUCTED VIA CLOSED

BOOK.

3. STUDENTS ARE **PROHIBITED**TO CONSULT THEIR OWN
MATERIAL OR ANY EXTERNAL
RESOURCES DURING THE

EXAMINATION.

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES



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Q1 (a) Describe THREE (3) purposes of incident or accident investigation.

(6 marks)

(b) Among the early step of accident investigation is analyzing all information about the accident. Explain TWO (2) purposes of that activity.

(4 marks)

(c) Discuss **FIVE** (5) individuals that might be involved in the investigation team and the reason for the involvement.

(10 marks)

(d) List FIVE (5) relevant documents that are also important for accident investigation.

(5 marks)

Q2 (a) List TWO (2) categories of the immediate cause of an accident.

(2 marks)

(b) Define residual risk and give ONE (1) example.

(3 marks)

(c) Interpret the distinction between hazards and risks is so important to accident investigation?

(5 marks)

(d) Differentiate between technical, procedural and behavioral controls.

(6 marks)

(e) Explain THREE (3) factors in the human factor theory of accident causation.

(9 marks)

A worker was using bench-mounted saw (refer to **Figure Q3**) to cut timbers to the required size. He was holding onto the timber piece using his right hand and holding the handle of the machine with his left hand. During the process of cutting, his right hand's thumb was cut off. The accident happened when the injured worker was holding onto the shorter side of the timber piece while cutting using the bench-mounted saw. His right hand's thumb was placed directly below the blade of the circular saw and was consequently severed.

Based on the above statement, answer the following questions:

(a) Besides cutting, list **THREE** (3) other hazards that might arise from the use of a benchmounted saw.

(3 marks)

(b) Identify the immediate cause and the underlying cause of the accident.

(4 marks)

(c) Discuss the hierarchy of protective measures for the safe use of the bench-mounted saw above.

(8 marks)

(d) By using an Ishikawa diagram, develop a diagram of 4P's Analysis for the above case. (10 marks)

Q4 (a) A worker loses the tip of his finger when it is pinched between a drive belt and an unguarded pulley. Generate an accident investigation template by using the 5 Why Analysis technique based on **THREE** (3) phases of accident causation (immediate cause, underlying causes and the root causes).

(15 marks)

(b) There are seven steps procedure of corrective action and preventive action (CAPA). Discuss the top **FIVE** (5) procedures.

(10 marks)

- END OF QUESTIONS -



FINAL EXAMINATION

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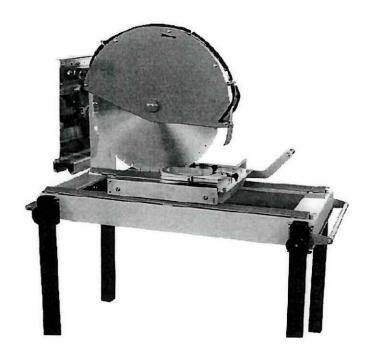


Figure Q3