

HEALTH SAFETY AND RISK ASSESSMENT (DOS 1013)



UNIVERSITY COLLEGE TATI (UC TATI)

**FINAL EXAMINATION QUESTION BOOKLET**

COURSE CODE	: DOS 1013
COURSE	: HEALTH SAFETY AND RISK ASSESSMENT
SEMESTER/SESSION	: 2 - 2022/2023
DURATION	: 3 HOURS

Instructions:

1. This booklet contains **4** questions. Answer ALL questions.
2. All answers should be written in answer booklet.
3. Write legibly and draw sketches wherever required.
4. If in doubt, raise up your hands and ask the invigilator.

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO**

**THIS BOOKLET CONTAINS 5 PRINTED PAGES INCLUDING COVER PAGE**

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**QUESTION 1**

- a) Define Occupational Safety and Health 1994 Act secondary name? (1 marks)
- b) Describe one (1) differences between OSHA 1994 and FMA 1967 Act (2 marks)
- c) Relates the two (2) effectiveness of SOP to work safety ethics (4 marks)
- d) Describe an SOP for Ultrasonic Testing of 40in Carbon Steel pipe on the offshore platform (10 marks)
- e) Outline two (2) Most **Effective** Risk Control and their example accordingly (4 marks)

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**QUESTION 2**

- a) Define one (1) definition of "As Practicable". (3 marks)
- b) Outline three (3) employer commitment as per stated in Employer Responsibility Sec 15. (6 marks)
- c) Define minimum number of workers for Safety Committee (2 marks)
- d) Applies the three (3) employee responsibilities for Ultrasonic Testing. (9 marks)  
You may state the **RISK/HAZARD** to support your answer.
- e) List three (3) safety committee role. (9 marks)

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**QUESTION 3**

- a) Azim were instructed to remove/disassemble Carbon Steel pipe (OD 20in x 40m length) from 20m<sup>3</sup> cylinder tank on a platform. List two (2) Hazard and their categories for said job. (4 marks)
- b) Differentiate three (3) hazard and risk on 30m concrete stair construction (6 marks)
- c) Predict the time of risk assessment and review should be carried out (4 marks)
- d) Outline three (3) hazard identifying methods for HIRARC process (3 marks)
- e) Carry out the risk assessment process using **Fault Tree Analysis**, procedure for **Broken Door Knob** (4 marks)

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**QUESTION 4**

- a) Describe four **(4)** processes of risk management. You may illustrate the flow to support your answer. (10 marks)
- b) Explain the process of Eliciting Risk Information and state the communication method/sample (7 marks)
- c) Propose two **(2)** Internal stakeholders and one **(1)** External stakeholders from question 4(b) (6 marks)
- d) Outline three **(3)** methods of prospective risk identification. (6 marks)

-----End of question-----

