



**UNIVERSITI KUALA LUMPUR
MALAYSIA FRANCE INSTITUTE**

**FINAL EXAMINATION
JANUARY 2014 SESSION**

SUBJECT CODE : FWB 23102
SUBJECT TITLE : WELDING SAFETY MANAGEMENT
LEVEL : BACHELOR
TIME DURATION : 2.5 HOURS
DATE :

INSTRUCTIONS TO CANDIDATES

- 1. Please read the instructions given in the question paper CAREFULLY.**
- 2. This question paper is printed on both sides of the paper.**
- 3. Please write your answers on the answer booklet provided.**
- 4. Answer should be written in blue or black ink except for sketching, graphic and illustration.**
- 5. This paper consists of FIVE (5) questions. Answer FOUR (4) questions only.**
- 6. Answer all questions in English.**

THERE ARE 2 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

(Total: 100 marks)

INSTRUCTION: Answer FOUR (4) questions only.

Please use the answer booklet provided.

Question 1

- a) Economy is one of the reasons why an organization is needed to prevent an accident. If accidents occurred, it is a fact that accidents will effected on organization economy. List **THREE (3)** other reasons why the accidents must be prevented. (6 Marks)
- b) The root causes of accidents can be grouped as immediate cause and contributing cause. Describe the contributing causes of an accident. (9 Marks)
- c) Risk management is the process of identifying potential hazards and undesirable events. Employer has a duty to ensure that employees are not exposed to hazards at the workplace which is stated in OSHA 1994. As a employer, by knowing risk management system is compulsory. Explain how to manage this system in order to ensure a safe and healthy workplace. (10 Marks)

Question 2

- a) List **THREE (3)** regulations under OSHA 1994 that enforced by DOSH. (6 Marks)
- b) Describe **THREE (3)** main features of a definition of a “factory” as stated in preliminary of the Factory and Machinery Act 1967. (9 marks)
- c) State the scopes of OSHA 1994 and explain the objectives of this act. (10 Marks)

Question 3

- a) A safe system of work is a formal procedure which results from a systematic examination of a task in order to identify all the hazards and assess the risks. Describe the concept of input to output of safe system of work.
(6 marks)
- b) Personal Protective Equipment (PPE) is specialized clothing or equipment worn by employees for protection against health and safety hazards. Discuss **THREE (3)** selection of suitable and list **FOUR (4)** factors affecting use of PPE.
(9 Marks)
- c) Describe the purposes of workplace inspections and state **FOUR (4)** major areas that should be inspected at a workplace.
(10 Marks)

Question 4

- a) Discuss **THREE (3)** major groups of compressed gases stored in cylinders.
(6 Marks)
- b) Handle cylinders of compressed gases as high-energy sources and therefore as potential explosives. Write down the rules in handling of compressed gas cylinders.
(9 Marks)
- c) Fire can be classified in four classes: A, B, C, and D. State the definition of the fire Class A and B and describe **THREE (3)** methods how these fire can spread in the building.
(10 Marks)

Question 5

- a) Confined spaces can be deadly. Describe **THREE (3)** atmospheric hazardous in confined space.
(6 marks)
- b) Describe the general rules that should be taken before entering a confined space.
(9 Marks)
- c) Oxygen deficient and oxygen-enriched are the most common hazards in a confined space. Define and identify **TWO (2)** causes of these hazards in confined space.
(10 marks)

END OF QUESTIONS