



UNIVERSITI KUALA LUMPUR
Malaysia France Institute

FINAL EXAMINATION
SEPTEMBER 2014 SESSION

SUBJECT CODE	:	FWB23102
SUBJECT TITLE	:	WELDING SAFETY MANAGEMENT
LEVEL	:	BACHELOR
TIME DURATION	:	9.00 AM – 11.30 AM (2.5 HOURS)
DATE	:	11 JANUARY 2015

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.

SECTION A (Total: 100 marks)**INSTRUCTION: Answer FOUR (4) questions only.****Please use the answer booklet provided.****Question 1**

- a) There are two groups of legislation in Malaysia. Define and list **TWO (2)** examples of these acts.
(6 Marks)
- b) Discuss the objectives and long term goal of OSHA 1994.
(9 Marks)
- c) Define the terms 'Employee' and 'Employer' in Part 1 and describe the responsibilities of 'Employee' in Part VI of OSHA 1994.
(10 Marks)

Question 2

- a) Define the domino theory of an accident and state **THREE(3)** basic procedures that should be taken to avoid any hazardous at workplace.
(6 Marks)
- b) The root causes of accidents in structure of accidents can be grouped as immediate cause and contributing cause. Describe the contributing causes based on 'Accident Causation Model'.
(9 Marks)
- c) Electrical shock is a hazard and can be grouped regarding to its identification, consequences, and preventive methods. Describe the groups of hazard.
(10 Marks)

Question 3

- a) Define general and local lighting. Then, as a employer, discuss **FOUR (4)** the benefits of good lighting and housekeeping practices.
(6 Marks)
- b) Explain briefly **THREE (3)** atmospheric hazards in confined space.
(9 Marks)

- c) Fire can be classified in four classes: A, B, C, and D. These types of fire can be extinguished by various of fire extinguishers. List **FIVE (5)** types of fire extinguishers and describe **THREE (3)** methods in preventing the fire.

(10 Marks)

Question 4

- a) State the procedures in investigating an accident.

(6 marks)

- b) Describe **TWO (2)** factors that are likely to affect the system of work and the way safety is managed.

(9 Marks)

- c) Explain the specific purposes of Notification and Reporting of Occupational Accident and Diseases.

(10 Marks)

Question 5

- a) Distinguish fumes and gases in welding and list **FOUR (4)** engineering control of exposure to these hazards.

(6 marks)

- b) The principle of *Personal Protective Equipments (PPE)* is to prevent the contact between the hazards and the body by having a barrier worn over the parts of the body. Explain **THREE (3)** types of PPE that normally used in the welding activities.

(9 Marks)

- c) There are three major groups of compressed gases stored in cylinders; liquefied, non-liquefied, and dissolved gases. Discuss a safe system of storage of the compressed gas in a workshop.

(10 marks)

END OF QUESTION