



UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF MARINE ENGINEERING TECHNOLOGY

FINAL EXAMINATION
JANUARY 2016 SEMESTER

COURSE CODE : LGD10201

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH IN
INDUSTRIES & SHIPYARD OPERATIONS

PROGRAMME NAME : DIPLOMA
(FOR MPU: PROGRAMME LEVEL)

DATE : 23 MAY 2016

TIME : 02.00 PM – 04.00 PM

DURATION : 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Please **CAREFULLY** read the instructions given in the question paper.
2. This question paper has information printed on both sides of the paper.
3. This question paper consists of **TWO (2)** sections; Section A and Section B.
4. Answer **ALL** questions in Section A. For Section B, Answer **TWO (2)** questions only.
5. Please write your answers on the answer booklet provided.
6. Answer all questions in **ENGLISH** language **ONLY**.

THERE ARE 5 PAGES OF QUESTIONS, INCLUDING THIS PAGE.

SECTION A (Total: 60 marks)**INSTRUCTION: Answer ALL questions.****Please use the answer booklet provided.****QUESTION 1**

The Government introduces legislation to make safety and health issues mandatory for employers and employees. The Government imposes penalties for failing to comply with the law. These fines aim to encourage people to take the legislation seriously and avoid the much more serious consequence of loss of life.

- a) Identify four (4) main duties of employers and four (4) main duties of employees. (8 Marks)
- b) Define safety committee. (2 Marks)
- c) Explain three (3) types of legislation. (6 Marks)
- d) State two (2) functions of safety committees. (4 Marks)

QUESTION 2

A hazard is anything that could cause injury or illness. Hazard can be eliminated or reduced by taken a prevention and control action.

- (a) In shipbuilding, hazard can be found everywhere. Name four (4) hazard can be found in shipbuilding. (4 marks)
- (b) Most hazards can be group in five (5) main categories. State those categories complete with one (1) example. (10 marks)
- (c) Explain three (3) main factors that contribute to workplace hazards. (6 marks)

QUESTION 3

(a) Good housekeeping involves every phase of industrial operation and should apply through the entire premises. Explain the need of proper Housekeeping System.

(5 marks)

(b) 5S housekeeping system originates from Japan and now used worldwide due to its effectiveness.

i) Define of each 5s housekeeping system.

(5 marks)

ii) Describe each method of 5s housekeeping system and give an example for each of them.

(10 marks)

SECTION B (Total: 40 marks)**INSTRUCTION: Answer TWO (2) questions only.****Please use the answer booklet provided.****QUESTION 4**

Pollution issue is a major global problem. It has adversely affected the lives of millions of people and caused many deaths and health disorders. The essential action must be taken to prevent it become more serious in future.

- (a) Define pollution. (2marks)
- (b) Describe five (5) possible cause environmental pollution. (5 marks)
- (c) List three (3) possible causes affect of water pollution in the workplace. (3 marks)
- (d) Identify five (5) necessary precaution to prevent pollution in a shipyard. (10 marks)

QUESTION 5

Personal safety precautions can save life and reduce the possibility workers involve in accident. It is very important for all workers to practice proper technique in any sort of job there are working on.

- (a) List six (6) of normal Personal Protective Equipment (PPE) used in the workshop. (6 marks)
- (b) Discuss two (2) cares that must be taken to ensure personal safety when using welding equipment. (4 marks)

- (c) The Occupational Health, Safety and Welfare Act 1986 (OHSW Act) and Occupational Health, Safety and Welfare Regulations 1995 (OHSW Regulations) place a duty of care on employers and employees to ensure safety in the workplace. The Regulations use the principle of hazard identification, risk assessment and risk control to minimize the risk of injury in the workplace. Self-employed people must take reasonable care to protect their own health and safety and that of any other person. Identify five (5) potential hazards that possible when a person working at height with five (5) action plan to reduce of falling from height.

(10 marks)

QUESTION 6

First aid is the provision of initial care for an illness or injury. It is usually performed by a non-expert person to a sick or injured person until definitive medical treatment can be accessed.

- (a) A first aid kit is a collection of supplies and equipment for use in giving first aid, and can put together for the purpose, or purchased complete. There is a wide variation in the contents of first aid kits based on the knowledge and experience of those putting it together, list six (6) basic first aid kit and design your own first kit layout.
- (b) Discuss the first aid procedures used to deal with burns from fire.

(8 marks)

(12 marks)

END OF EXAMINATION QUESTION