



**SET A**

**UNIVERSITI KUALA LUMPUR  
Malaysia France Institute**

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**FINAL EXAMINATION  
SEPTEMBER 2014 SESSION**

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**SUBJECT CODE : FID26402**  
**SUBJECT TITLE : OPERATION AND SAFETY MANAGEMENT**  
**LEVEL : DIPLOMA**  
**TIME / DURATION : 9.00 AM – 11.00 AM  
( 2 HOURS )**  
**DATE : 29 DECEMBER 2014**

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**INSTRUCTIONS TO CANDIDATES**

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- 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 question paper consists of TWO (2) sections. Section A and B. Answer all questions in Section A. For Section B, answer two (2) questions only.**
  - 6. Answer all questions in English.**
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**THERE ARE 3 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.**

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

- a. List four (4) objectives of OSHA 1994. (8 marks)
- b. When the Occupational Safety and Health Act 1994 (OSHA) was gazetted? (2 marks)

**Question 2**

- a. Define the 'inventory' in manufacturing industry (4 marks)
- b. Describe three (3) functions of inventory in operation (6 marks)

**Question 3**

- a. "Productivity is a measurement of output divide of input". Describe how to increase productivity in manufacturing industry? (4 marks)
- b. List four (4) factors effecting productivity in an organization (6 marks)

**Question 4**

- a. Explain one (1) act under Occupational Safety and Health Act 1994 (OSHA 1994). (6 marks)
- b. Define and describe briefly of this term OHSAS 18001 and ISO/EMS 14001. (4 marks)

**Question 5**

- a. Briefly describe three (3) element of fire triangle. (3 marks)
- b. Describe four (4) fire fighting agent. (7 marks)

**Question 6**

- a. List three (3) considerations should be applied before selection of PPE for welder. (6 marks)
- b. Explain two (2) effecting to worker if wrongly selecting of Personal Protective Equipment (4 marks)

**SECTION B (Total: 40 marks)**

**INSTRUCTION: Answer two (2) questions only.**

**Please use the answer booklet provided.**

**Question 7**

Table 1 shows the weekly report. Compute the multifactor productivity measure for each week. What do the productivity figures suggest?

Assume 40-hour weeks and an hourly wage of RM12. Overhead is 1.5 times weekly labor cost. Material cost is RM6 per kilogram

**Table 1: Weekly Report**

<b>Week</b>	<b>Output (units)</b>	<b>Workers</b>	<b>Material (kg)</b>
1	30000	5	450
2	33600	6	470
3	32200	6	460
4	35400	7	480

(20 marks)

**Question 8**

- a. "Humans are always blamed for the cause of an accident at a work place". Discuss this statement base on the Human Factor Theory of Accident

(10 marks)

- b. Inspection is one elective way of indentifying possible hazard, so does risk assessment. Explain how these two approaches important to each other in minimizing hazard at workplace

(10 marks)

**Question 9**

Explain the rationale for carrying out accident investigation at a workplace in an organization

(20 marks)

**END OF QUESTION**