

**L4C7**



**THE INSTITUTION OF FIRE ENGINEERS**  
Founded 1918 • Incorporated 1924

**IFE Level 4 Certificate in Fire Science and Fire Safety (HL)**

**Unit 7: Civil Emergency and Disaster  
Management (A/505/5937)**

**Thursday 12 March 2015**

**14:15 – 17:15**

**Instructions to Candidates**

1. The time allowed for this examination is **THREE** hours.
2. Candidates are to answer **SIX** questions from the total of **EIGHT** questions set for this examination.
3. All questions carry equal marks and may be answered in any order. Candidates should follow the instructions provided in the question when composing their responses.
4. Candidates should record all of their answers in the answer book provided.
5. The question paper must be handed in with the answer book.

**1**

a) Define the following categories of disaster, providing two examples of each and indicating their speed of onset:

- i. Natural
- ii. Manmade

(8 marks)

b) Explain, using examples, the planning that can be put in place in preparation for potential disasters.

(12 marks)

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**2**

Following any major disaster where there have been many deaths, the identification of bodies can be a difficult process.

a) Explain, highlighting any limitations, the physical methods of identification that can be used to identify victims.

(12 marks)

b) Detail the factors that have to be taken into account in setting up a temporary mortuary.

(8 marks)

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**3**

a) Identify and explain the difficulties in dealing with victims of a major civil disaster in a remote location.

(12 marks)

b) Describe the phases in the Disaster Management Cycle.

(8 marks)

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**4**

Training is an essential element in the preparation for responding to disasters.

a) Identify key training topics and explain their importance.

(14 marks)

b) Outline the training methods that can be used, highlighting any limitations.

(6 marks)

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5

a) In relation to resilience and contingency planning, define the following terms:

- i. Contingency Planning
- ii. Emergency Planning
- iii. Disaster Recovery
- iv. Combined Response
- v. Business Continuity

(10 marks)

b) With the aid of a diagram, detail the steps in a business continuity cycle.

(10 marks)

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6

In relation to voluntary assistance at civil emergencies and disasters:

a) State the difficulties associated with informal volunteers at a disaster site and explain how they might be resolved.

(6 marks)

b) Outline the roles of formal (organised) volunteers in regional disaster prevention and emergency response.

(14 marks)

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7

a) Assess the impact, both positive and negative, that media involvement at disasters can have during and after a civil disaster.

(10 marks)

b) Explain how the media can aid emergency organisations prior to disaster events.

(10 marks)

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**[Please turn over]**

8

In relation to the analysis of hazards and risks associated with the Prevention of Major Industrial Accidents:

- a) What are the key areas that have to be covered to analyse the safety of a major hazard installation? (9 marks)
- b) What are the formalised methods to follow to ensure reasonable completeness and comparability? (3 marks)
- c) What information should an accident consequence analysis contain? (8 marks)
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