

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 16 March 2017

14:30 – 17:30

Instructions to Candidates

1. The time allowed for this examination is **THREE** hours.
2. Candidates must 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.

Question 1

Emergency plans can be either generic or specific.

- a) Explain the potential problems that can arise if relying too much on each of these types of plans. (4 marks)
 - b) Explain the key benefits of each type of plan. (6 marks)
 - c) Describe the areas that you would expect to see covered in a generic emergency plan. (10 marks)
-

Question 2

Part of the effective response to any disaster or major incident situation must be the sensitive and efficient handling of the dead. Describe the main considerations that would influence your planning for management of the dead.

(20 marks)

Question 3

- a) Explain your considerations in identifying training objectives and key content for a training session on 'Emergency Response and Business Continuity' for the board of directors of a large local business. (12 marks)

- b) Describe, including examples, the business continuity cycle. (8 marks)
-

Question 4

In relation to voluntary assistance at civil emergencies and disasters:

- a) Explain the difficulties associated with informal volunteers at a disaster site and explain how they might be resolved. (6 marks)

- b) Describe the roles of formal (organised) volunteers in planning for, and responding to, regional disasters. (14 marks)
-

Question 5

- a) Explain the indicators that could be used to analyse the vulnerability of a population in a remote location. (10 marks)
- b) Engineered structures have been designed and implemented to protect man and the environment against natural disasters. Using examples, describe the purpose and operating principles of each of the following systems:
- i) barrier (4 marks)
 - ii) deflection (3 marks)
 - iii) retention (3 marks)
-

Question 6

Explain the steps that local and central authorities can take to prepare for incidents of civil unrest involving actions such as looting and rioting. (20 marks)

Question 7

- a) Describe the aims of disaster response. (5 marks)
- b) Explain how communications technologies can assist with disaster response. (8 marks)
- c) Describe the purpose of disaster recovery. (7 marks)
-

Question 8

- a) Describe the ways in which the media can make a positive contribution to disaster management. (12 marks)
- b) Explain the arrangements that you would put in place to manage the media during an emergency incident. (8 marks)
-