

L4C7



THE INSTITUTION OF FIRE ENGINEERS
Founded 1918 • Incorporated 1924

IFE Level 4 Certificate in Fire Science and Fire Safety

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

Thursday 14 March 2019

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

- 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)
-

Question 2

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

- a) Identify key training topics and explain their importance. (14 marks)
- b) Describe, including any limitations, three training methods that can be used to test contingency plans. (6 marks)
-

Question 3

In relation to voluntary assistance at civil emergencies and disasters:

- a) Describe 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 regional disaster prevention and emergency response. (14 marks)
-

Question 4

- a) The military can have a role during a disaster. Explain the types of assistance that the military can give to emergency services in the event of a disaster involving a major landslide upon an inhabited area. (10 mark)
- b) Explain the assistance that industrial and commercial organisations can provide to the emergency services during the planning and preparations for major disasters. (10 marks)
-

Question 5

In relation to civil emergency, describe the typical activities of emergency responders at a major emergency.

(20 marks)

Question 6

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 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)
