

L3D6



THE INSTITUTION OF FIRE ENGINEERS
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IFE Level 3 Diploma in Fire Science and Fire Safety Unit 6: Fire Service Operations and Incident Command (L/505/6008)

Thursday 8 March 2018

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 answers.
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) Describe the main components of the Decision Control Process. (16 marks)
- b) Explain why the Decision Control Process is important to the Incident Commander when decisions are being made at an incident. (4 marks)
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Question 2

- a) As the Incident Commander of the first attending appliances you are called to a large distribution warehouse with signs of a rapidly developing fire. Describe your initial considerations when reviewing the situation. (12 marks)
- b) Describe the hazards and risks relevant to the situation. (8 marks)
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Question 3

Fire and Rescue Services need to plan in advance in order to ensure that they are prepared for possible emergency incidents. Describe the factors that should be included in pre-planning for a possible incident at a building which contains a biological hazard. (20 marks)

Question 4

- a) Describe the seven main properties of firefighting foam. (14 marks)
- b) Describe the hazards associated with the use of high expansion foam. (6 marks)
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Question 5

In relation to petrochemical incidents:

- a) State and describe five main types of explosion risks associated with oil tanks. (10 marks)
- b) Describe the hazards and risks associated with boil-overs and describe the control measures that should be put in place. (10 marks)
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Question 6

Describe the hazards and risks associated with the operational use of helicopters. (20 marks)

Question 7

You have been called to the scene of a trench collapse where one person has been trapped by the collapse.

- a) Explain the hazards and risks that should be considered when developing an operational plan to carry out the rescue. (10 marks)
- b) Describe the control measures that you would put in place. (10 marks)
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Question 8

- a) Describe the actions that incident commanders should take when closing down an incident. (14 marks)
- b) Describe the content and importance of post-incident de-briefs. (6 marks)
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