

# L3D6



THE INSTITUTION OF FIRE ENGINEERS  
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**IFE Level 3 Diploma in Fire Science and Fire Safety (VRQ)**

## **Unit 6: Fire Service Operations and Incident Command (L/505/6008)**

**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 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) Explain the term “situational awareness” and its relevance to the role of Incident Commander in successfully managing an incident. (10 marks)
  - b) Incident Commanders often have to work with other agencies such as the police at the scene of an incident. Describe the factors that you would take into account when working with other agencies at an incident in order to ensure achievement of objectives. (10 marks)
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**Question 2**

- a) Define the term “flashover” and describe the signs associated with flashover. (8 marks)
  - b) Define the term “backdraught” and describe the signs associated with backdraughts. (8 marks)
  - c) Define the term “fire gas explosion”. (4 marks)
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**Question 3**

- a) Describe the factors that the Incident Commander would take into account prior to implementing working at height at an incident. (6 marks)
  - b) Describe the measures that the Incident Commander should implement in order to ensure a safe system of work for working at height. (8 marks)
  - c) Describe how individual protection when working at height can be achieved. (6 marks)
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**Question 4**

It is essential that Local Authority Fire Services liaise with airports in their area to pre-plan for emergency incidents.

Describe the factors that should be included in pre-planning for a possible incident at an airport.

(20 marks)

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### Question 5

You are the Incident Commander mobilised in response to an incident involving a fire in the radiological unit of a local hospital.

- a) Describe the two principal hazards which arise from radioactivity. (4 marks)
- b) Describe the factors that the Incident Commander would take into account prior to formulating a tactical plan. (6 marks)
- c) Describe the control measures that the Incident Commander should put in place when managing an incident involving radiation. (10 marks)
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### Question 6

- a) Explain the operational challenges that an Incident Commander will need to take into account when attending a fire in a long road tunnel. (10 marks)
- b) Describe the control measures that would need to be put into place to protect crew members when managing a fire in a long road tunnel. (10 marks)
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### Question 7

- a) Describe the role and responsibilities of a safety officer at an incident. (10 marks)
- b) Describe the role and responsibilities of a sector commander at an incident. (10 marks)
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### Question 8

- a) Describe the process of de-briefing following an incident and identify the matters considered during de-briefs. (12 marks)
- b) Explain the importance of de-briefing. (8 marks)
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