

L4C3



THE INSTITUTION OF FIRE ENGINEERS
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IFE Level 4 Certificate in Fire Science and Fire Safety (HL)

Unit 3: Fire Service Operations and Incident Command (H/505/5933)

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

You are the Incident Commander mobilised to an incident that has involved the main line of a national railway network.

- a) Explain how liaison with the Railway Infrastructure Management could assist when dealing with this incident. (5 marks)
 - b) Describe how rail traffic movements can be managed. (10 marks)
 - c) Explain the implications on the wider community of interrupting or stopping the rail movements. (5 marks)
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Question 2

- a) Explain the incident command protocols that would operate when attending incidents within prisons or other places of lawful detention and explain how the fire service would work with other relevant organisations during and immediately after the incident. (8 marks)
 - b) Explain the safety precautions specific to attending incidents within prisons or other places of lawful detention. (12 marks)
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Question 3

Following the escalation of an incident, a tactical/silver Incident Commander is called to the incident. Explain the responsibilities and considerations of the tactical Incident Commander when arriving at the scene and taking over control.

(20 marks)

Question 4

Multi-agency working is essential at large or complex incidents where joint decisions are made to achieve a common goal.

- a) Explain the rationale for keeping a log of decisions during such incidents. (8 marks)
 - b) Explain the factors that may affect the effectiveness of joint decision-making when working at tactical and strategic level. (12 marks)
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Question 5

In relation to confirmed chemical, biological, radiological or nuclear (explosives) materials (CBRN(E)) incidents:

a) Explain the circumstances where you would consider committing fire crews without full chemical protective clothing and also state the circumstances where you would not commit fire crews.

(4 marks)

b) Explain the control measures that you would instigate where crew members are committed without full chemical protective clothing.

(6 marks)

c) Explain the considerations and additional control measures that would be employed beyond the initial phase of the incident.

(10 marks)

Question 6

Describe the matters to be considered when pre-planning for an incident involving a ship (non-military) fire alongside in a large marine port within your Fire and Rescue Service's boundary.

(20 marks)

Question 7

As duty officer you have been asked to attend an incident at a theme park in your service area which involves a number of individuals suspended in a defective car of a large roller coaster.

a) Describe the factors you would take into account in developing your tactical plan to complete the rescue.

(8 marks)

b) Explain the control measures that you would employ when carrying out the rescue.

(12 marks)

Question 8

Explain the command and control procedures that may need to be implemented and the specific precautions that should be considered with regard to a Liquid Petroleum Gas (LPG) road tanker that is involved in a fire.

(20 marks)
