

L4C3



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

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

Monday 8 October 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. Questions may be answered in any order.
4. Candidates must record all of their answers in the answer book provided.
5. The question paper must be handed in with the answer book.

Question 1

Explain in detail the responsibilities and considerations of a tactical Incident Commander when arriving at the scene and taking over control.

(20 marks)

Question 2

In relation to the Joint Decision Making Model, describe in detail the seven factors that may negatively affect joint decision-making and that need to be considered when working at tactical and strategic level.

(20 marks)

Question 3

A controlled burn can be employed as an environmental protection strategy. Discuss the circumstances when allowing a fire to burn out would be considered appropriate and explain the factors that would be taken into account when making this decision.

(20 marks)

Question 4

You are responding to the report of an aircraft collision involving two light aircraft over a remote rural area. Describe your considerations when approaching the incident site.

(20 marks)

Question 5

You are the Duty Officer called to attend an incident involving several people trapped in mud in a situation involving a rising tide. Crews are in attendance, a risk assessment has been carried out and an extrication plan has been developed.

a) Detail the key strategic points that should be considered when formulating the initial plan.

(10 marks)

b) Identify the key considerations for casualty care and extrication management.

(4 marks)

c) Describe the post-incident tasks and actions that should be considered.

(6 marks)

Question 6

As Duty Officer you respond to a fire inside a workshop on an industrial estate where two acetylene cylinders are reported to be present.

Describe your approach to this incident and explain the tactical measures you would implement depending on the **involvement** and **location** of the acetylene cylinders.
(20 marks)

Question 7

As the most senior officer, you are responding to a report of a road traffic collision involving several vehicles and a petrol tanker on a motorway.

- a) Describe your immediate concerns and explain ways of mitigating the risks to motorists and to firefighters.
(12 marks)
 - b) Explain the factors that you will take into account when assessing the correct level of personal protective equipment (PPE).
(8 marks)
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Question 8

- a) Describe the role of Command Support at incidents and, using the example of a building on fire in a large industrial estate, explain how the responsibilities of the command support sector develop as the incident escalates.
(12 marks)
 - b) Explain the importance of the concept of span of control and the specific implications of this concept for the Incident Commander.
(8 marks)
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