

**L3C2**



**THE INSTITUTION OF FIRE ENGINEERS**  
Founded 1918 • Incorporated 1924

**IFE Level 3 Certificate in Fire Science, Operations,  
Fire Safety and Management**

**Unit 2: Fire Operations (R/505/5751)**

**SAMPLE**

**Instructions to Candidates**

1. You **must** record all of your answers in the answer book provided.
2. You must answer **all** questions in the examination paper.
3. The marks available for each question are shown at the end of the end of the question. Questions may be answered in any order. You should follow the instructions provided in the question when composing answers.
4. At the end of the examination, the answer book and this question paper will be collected by the invigilators. You will not be allowed to keep any examination stationery.
5. The time allowed for this examination is **one hour**.

### **Question 1 - Incident Command**

a) When pre-planning for incidents, the location of a possible incident is a major factor. Explain why the location of a site needs to be taken into account when pre-planning.

(4 marks)

b) Within the context of Incident Command, explain the purpose of an inner cordon and explain how it is managed.

(4 marks)

### **Question 2 – Firefighting: Principles and Considerations**

a) Explain how flashover differs from backdraft and provide examples of signs that signal a flashover may be about to occur.

(6 marks)

b) On arrival at an incident, the incident commander will need to collect information on the location of the fire. Describe four ways in which information on the exact location of a fire can be obtained.

(4 marks)

### **Question 3 - Firefighting and Rescue Contexts**

Describe five hazards that may be encountered when tackling a fire in a waste site and describe the control measures **specific** to a situation involving a fire in a waste site that may be implemented to mitigate risk.

(10 marks)

**Question 4 - Firefighting and Rescue Contexts**

Describe the actions that should be taken when extricating a casualty safely from a vehicle.

(6 marks)

**Question 5 - Water Supplies, Appliances and Equipment**

a) Describe the following methods of conveying water to the incident ground:

i) Water carrying

(3 marks)

ii) Water relay

(3 marks)

b) Operators of thermal imaging cameras should be aware of the limitations of thermal imaging equipment. Describe four factors that should be considered when using this equipment.

(4 marks)

**Question 6 - Closing down an incident and post-incident actions**

Describe the actions to be taken when handing over an incident scene to the responsible individual when an incident is closed down.

(6 marks)