

L4C3



THE INSTITUTION OF FIRE ENGINEERS
Founded 1918 • Incorporated 1924

IFE Level 4 Certificate in Fire Science and Fire Safety

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

Monday 12 October 2020

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

- a) Describe the key functional elements of effective incident command. (6 marks)
- b) Describe the factors that a fire service should take into account when selecting and training individuals to become operational commanders. (8 marks)
- c) Describe the command competencies and management skills that Intermediate and Advanced Tactical Commanders should demonstrate that are specific to roles at this level. (6 marks)
-

Question 2

You are the Tactical Commander chairing a multi-agency meeting at a large warehouse fire.

- a) Describe the factors that could affect the joint decision-making during the incident. (14 marks)
- b) Explain how you would ensure that within the meeting information has been exchanged and is understood. (6 marks)
-

Question 3

You have been given the task of performing an assessment of the pre-planning arrangements for dealing with wide area flooding within your Fire and Rescue boundary.

- a) Describe the main types of event and causes of flooding. (6 marks)
- b) Describe the strategic actions that should be considered as part of planning. (6 marks)
- c) Describe the main considerations and control measures to mitigate flood damage to property and infrastructure. (8 marks)
-

Question 4

You are called to investigate a road traffic collision between two vehicles, one of which is a service vehicle responding to an incident. The occupants of the non-service vehicle are deceased.

- a) Describe your immediate considerations. (12 marks)
- b) Describe the post-incident actions to be taken. (8 marks)
-

Question 5

You are the Tactical Commander called to attend a fire at a large residential care home.

- a) Describe the tactical priorities that you would consider. (6 marks)
- b) Describe the factors you would consider regarding the building type. (10 marks)
- c) Explain the different types of evacuation procedures that could be deployed. (4 marks)
-

Question 6

You are the Tactical Commander called to attend a road traffic collision located on a motorway and involving multiple vehicles including a lorry carrying livestock.

- a) Identify the main hazards associated with this type of incident. (8 marks)
- b) Explain the relevant control measures that should be established. (12 marks)
-

Please turn over

Question 7

You are the Tactical Commander called to a fire at a large food processing plant with a complex layout containing sandwich panels.

a) Describe the general considerations and inherent hazards related to sandwich panels.

(10 marks)

b) Explain your considerations regarding fire spread and the stability of the building.

(10 marks)

Question 8

Decision-making is defined as being “essential to the development and implementation of an incident plan”. Explain in detail the model for making joint decisions.

(20 marks)
