

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 10 March 2016

14.30 – 17.30

Instructions to Candidates

1. The time allowed for this examination is **THREE** hours.
2. Candidates should answer **SIX** questions from the total of **TEN** 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

An important part of incident command is the Decision Control Process. Describe the four parts of the Decision Control Process.

(20 marks)

Question 2

Explain the control measures that an Incident Commander can introduce to manage an incident safely.

(20 marks)

Question 3

Describe the hazards that may be encountered by fire and rescue personnel when attending an incident involving a military aircraft crash landing next to an airfield.

(20 marks)

Question 4

With regards command and control protocols, describe the six distinct phases of a collapsed structure incident. (This is often referred to by the acronym REPEAT.)

(20 marks)

Question 5

a) Identify three typical uses for each of the following type of expansion finished foams:

- i. Low
- ii. Medium
- iii. High

(9 marks)

b) Describe the hazards associated with the use of high expansion foam.

(11 marks)

Question 6

You are the Incident Commander of the first attendance called to a de-railment involving a passenger train.

a) Describe the hazards associated with this type of rail incident.

(14 marks)

b) Describe six control measures that you would put in place to protect crew members.

(6 marks)

Question 7

Describe the issues to be considered and the specific techniques to be used when undertaking actions to deal with a leak of LPG (liquefied petroleum gas) from a pipeline.

(20 marks)

Question 8

a) Describe the control measures used to protect crew members when there is a risk of biological infections at water-related incidents.

(12 marks)

b) Describe the post-incident measures the Incident Commander should consider to help eliminate or remove any further risks.

(8 marks)

Question 9

a) The Incident Commander must take into account environmental damage caused by incidents. Describe the hierarchy of environmental control measures used to contain polluted fire water run-off at an incident.

(12 marks)

b) Explain the factors that an Incident Commander should consider when determining whether or not a controlled burn would be appropriate.

(8 marks)

Question 10

Describe the hazards and risks that an Incident Commander must take into account while attending an incident at a farm.

(20 marks)
