



THE INSTITUTION OF FIRE ENGINEERS  
Founded 1918 • Incorporated 1924

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

### Unit 3: Fire Safety (L/505/5750)

## SAMPLE QUESTIONS

### Introduction

This document has been provided to aid candidates in their preparation for the IFE Level 3 certificate in Fire Science, Operations, Fire Safety and Management. The document is in two parts:

Part 1: A selection of sample questions mapped to the syllabus for Unit 3: Fire Safety.

Part 2: A copy of the front cover of the examination paper, enabling candidates to familiarise themselves with the instructions for responding to the examination paper.

### Part One - Sample Questions

#### Information about the Examination

The examination is one hour in duration. There are two sections:

#### Section One

There are 15 marks available for this section of the examination. It contains 15 multiple choice questions and each question is worth one mark. Questions may target any assessment objective identified within the unit. Candidates should attempt all questions in this section of the examination.

#### Section Two

There are 35 marks available for this section of the examination. Questions in this section take the form of short written answer questions and provide candidates with the opportunity to demonstrate their knowledge and understanding across the content specified in the unit. The

marks allocated to each question are shown on the examination paper. Candidates should attempt all questions in this section of the examination.

### Sample Multiple Choice Questions

Which THREE of the following are elements of structure within a building?

- i) Columns
- ii) Staircase
- iii) Sandwich panels
- iv) Beams

- a) i, ii, iii
- b) i, ii, iv (Ans)
- c) i, iii, iv
- d) ii, iii, iv

Syllabus Reference, 1.3

Which one of the following extinguishing properties is **NOT** consistent with the methods in which a **water spray protection system** extinguishes an oil fire?

- a) Cooling.
- b) Reduction of the amount of fuel available. (Ans)
- c) Dilution of oxygen supplies.
- d) Dilution of liquid.

Syllabus Reference, 2.2

Which THREE of the following are features of **Open Circuit Alarm Systems**?

- i) Detectors are wired in parallel
- ii) There is no current flow when on standby
- iii) A broken circuit will raise an alarm
- iv) The operation of a detector activates the alarm

- a) i, ii, iii
- b) i, ii, iv (Ans)
- c) i, iii, iv
- d) ii, iii, iv

Syllabus Reference, 3.3

### Sample Short Written Answer Questions

Guidance note to candidates: When responding to short answer questions, candidates are advised to note the instructions provided in the question and also the number of marks available. For example, a question that includes the instruction “state three” and indicates that there are three marks available requires three brief points in answer; likewise, a question with an instruction to “explain” something and which has six marks allocated to it requires six in-depth points relevant to the question asked in order to secure each of the marks available.

<b>Describe</b> the behaviour in fire of granite when used in the construction of buildings. (6 marks)	Syllabus Reference, 1.4
<b>Describe</b> briefly the basic principles of design of any sprinkler system. (6 marks)	Syllabus Reference, 2.1
<b>Describe</b> the changes in the protected environment that fire detectors sense and respond to during the development of a fire? (4 marks)	Syllabus Reference, 3.2
<b>Describe</b> four factors that influence how long an individual takes to exit a building when an alarm sounds. (4 marks)	Syllabus Reference, 4.2

## **Part Two - Examination Paper Instructions**

Instructions for candidates undertaking the examination are provided on the front cover of the question paper. A copy of the front cover is provided below.

Candidates are required to complete the answers to the multiple choice questions on the relevant page of the answer book (page 2, which is on the reverse of the front cover of the answer book). A copy of the format of this page is provided below.

**L3C3**



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

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

**Unit 3: Fire Safety (L/505/5750)**

**SAMPLE EXAMINATION PAPER FRONT COVER**

**Instructions to Candidates**

1. You **must** use the answer book to record all of your answers.
2. This examination paper contains two sections. You must answer **all** questions in both sections of the examination paper.
3. 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.
4. The time allowed for this examination is **one hour**.

**EXAMINATION REFERENCE NUMBER**

**CENTRE NUMBER**

**CANDIDATE NUMBER**

L	3	C	
---	---	---	--

--	--	--

--	--	--	--	--



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

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

**Sample Answer Book Cover**

**Instructions to Candidates**

1. Write your **Examination Reference Number**, **Centre Number** and **Candidate Number** in the correct spaces at the top of this page. Please do not write in the grid below.
2. The answers to the multiple choice questions must be recorded on page 2 in this answer book. The responses to the written response questions should be provided on the lined paper in this answer book.
3. You should use a pencil when your answers to section 1 (multiple choice); the answers to questions in section 2 of the examination should be written in pen.
4. Any rough work should be crossed out.
5. At the end of the examination, the question paper and this answer book will be collected by the invigilators. You will not be allowed to keep any examination stationery.

Section	Multiple Choice Questions	Short Written Response	Marker's Initials	Total Mark	Grade
Original Mark					
Moderated Mark					
Final Mark					

# MULTIPLE CHOICE QUESTION ANSWER SHEET

Please use a pencil to record your answers.

Please identify **only** one of the four options provided

Mark your answers by striking them through like this:

1 [a] [b] ~~[c]~~ [d]

Please do NOT mark with ticks, crosses or circles. If you make a mistake, erase it completely.

1 [a] [b] [c] [d]

11 [a] [b] [c] [d]

2 [a] [b] [c] [d]

12 [a] [b] [c] [d]

3 [a] [b] [c] [d]

13 [a] [b] [c] [d]

4 [a] [b] [c] [d]

14 [a] [b] [c] [d]

5 [a] [b] [c] [d]

15 [a] [b] [c] [d]

6 [a] [b] [c] [d]

7 [a] [b] [c] [d]

8 [a] [b] [c] [d]

9 [a] [b] [c] [d]

10 [a] [b] [c] [d]

**Score:**