



2015 EXAMINATION

ASSOCIATE

Saturday 5th September 2015

FIRST SESSION 0900 to 1100 hours

Ten minutes are allowed to read through the paper.
Candidates are to **attempt all questions.**
Questions may be answered in any order.
Ink or ballpoint pens are to be used for all written work.
Pencil may be used for diagrams or sketches.
All working must be shown.
Marks may be deducted for untidy work.

Spare paper can be obtained from the invigilator if required

--	--	--	--

Candidate Number

QUESTION 1

Multiple Choice

Circle the letter beside the answer you think is correct.

(2 marks each)

1. The Safe Person Concept is about thinking and acting safely while carrying out your duties as a firefighter. It is designed to help you make the right decision in any situation.

Which of these four basic principles is not part of the safe person concept?

- a) Think about your roles and responsibilities as a firefighter
 - b) Think about the safety of yourself and others first
 - c) Think about your actions and how they affect other members of your Brigade and the Public
 - d) Trust in yourself and your training
2. The Safe Person Concept is based on a set of guidelines that will help you maintain the balance between keeping yourself safe in performing your roles as a firefighter. These guides are grouped into four broad categories. Which one of the following is NOT one of these categories?
- a) People
 - b) Procedures
 - c) Equipment/Resources
 - d) Training
3. Within the Dynamic Risk Assessment, there are three levels of responsibility. Which one of these is NOT part of the Dynamic Risk Assessment?
- a) Individual Level
 - b) Station Level
 - c) Task Level
 - d) Team Level
4. What is the maximum working pressure of a low pressure delivery?
- a) 700kPa
 - b) 950kPa
 - c) 1050kPa
 - d) 1250kPa

5. Which of these is not a class of fire?
- a) Electrical
 - b) Cooking oils and fats
 - c) Flammable liquids
 - d) Plastics and rubbers
6. Which of these is NOT a sign of an impending backdraft?
- a) The doors and windows look like they are moving in and out slightly
 - b) Dense grey yellow smoke becomes darker as it exits the building
 - c) You can see tongues of flame running through the gas layer
 - d) The spaces around the doors and windows are making a rattling or whistling noise
7. Which one of the following foam concentrates is particularly suitable for use on fires involving 'polar solvents'?
- a) Protein
 - b) Synthetic
 - c) Alcohol-resistant
 - d) Fluoroprotein
8. When venting a smoke filled room fitted with sliding sash windows, where should the windows be opened?
- a) Just at the top
 - b) Just at the bottom
 - c) One third at the bottom and two thirds at the top
 - d) Two thirds at the bottom and one third at the top
9. If a hose is found faulty on the fire ground what should you do?
- a) Put a tag
 - b) Roll and put back in locker
 - c) Put a knot at both ends
 - d) All of the above
10. Combustible metals are classified as what type fuels?
- a) Class A
 - b) Class C
 - c) Class D
 - d) Class K

QUESTION 2 Hazardous Substances

1. Name six (6) pieces of information that can be gained from this HAZCHEM label?
(1 mark each)



- i.
.....
- ii.
.....
- iii.
.....
- iv.
.....
- v.
.....
- vi.
.....

2. Name four (4) different manners in which toxins can enter the body.

(1 mark each)

i.
.....

ii.
.....

iii.
.....

iv.
.....

3. List six (6) considerations for choosing a decontamination site.

(1 mark each)

i.
.....

ii.
.....

iii.
.....

iv.
.....

v.
.....

vi.
.....

4. There are four (4) control zones that should be set up and used at a hazardous substances incident. Draw a diagram labelling and showing these four zones in relation to a hazardous substances spill. Marks will be awarded for correct identification and placement of these zones in relation to the spill. **(1 mark each)**

QUESTION 4
Firefighting with Foam

1. List three (3) ways in which foam suppresses a fire and identify which side of the fire triangle is eliminated. **(5 marks)**

i.

.....

ii.

.....

iii.

.....

2. What are five (5) advantages of using Class A foam to extinguish fires? **(1 mark each)**

i.

.....

ii.

.....

iii.

.....

iv.

.....

v.
.....

3. What are five (5) advantages of using Class B foam to extinguish fires? **(1 mark each)**

i.
.....

ii.
.....

iii.
.....

iv.
.....

v.
.....

4. What are the potential hazards when working with foam? **(5 marks)**