

Surname	Centre Number	Candidate Number
Other Names		0



LEVEL 1/LEVEL 2 AWARD

9811/01



S16-9811-01

CONSTRUCTING THE BUILT ENVIRONMENT

Unit 1: Safety and Security in Construction

Paper version of on-screen assessment

A.M. THURSDAY, 16 June 2016

1 hour

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	2	
2.	2	
3.	4	
4.	8	
5.	6	
6.	7	
7.	4	
8.	7	
9.	20	
Total	60	

9811
010001

INSTRUCTIONS TO CANDIDATES

Questions in this examination are based on the context of *RGB Design and Build*, details of which can be found in the introduction.

You are required to answer **all** questions.

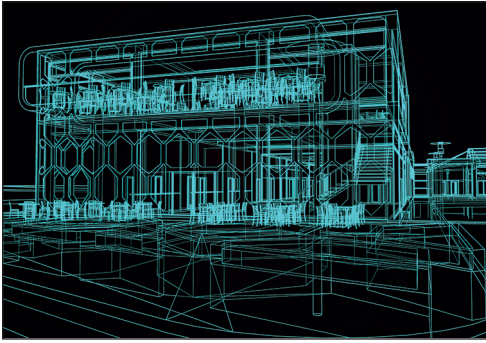
There are 60 marks available in this examination.

Quality of written communication will be assessed in question 7.

Write your answers in the spaces provided in this booklet or as guided by the question.

Introduction

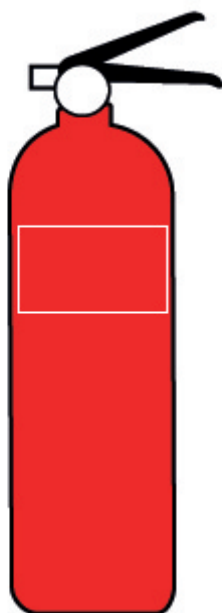
RGB Design and Build was set up ten years ago in Fulham, London. It has successfully completed many projects all over the UK and has built a good reputation for safety and security practices.



Answer **all** the questions in the spaces provided.

1. *RGB Design and Build* staff are looking to place more safety signs around their office. They have many water fire extinguishers and would like to have signs identifying the types of fire these can be used on.

A water fire extinguisher can be identified by a red band. Select from the list below **two** types of fire this extinguisher could be used on. [2]



Flammable
liquids

☐

Electrical

☐

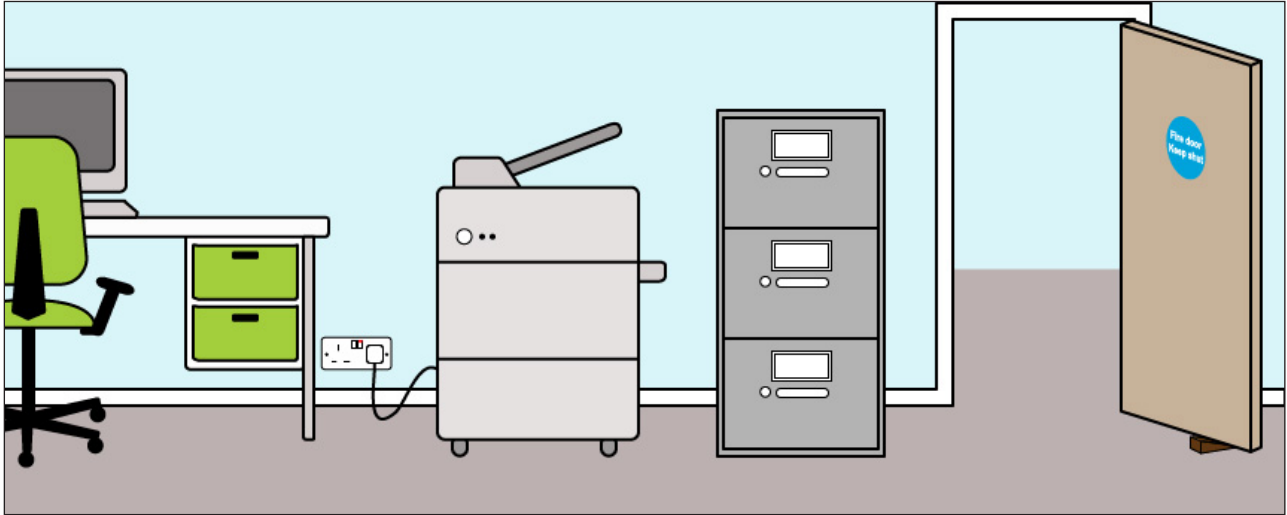
Wood

☐

Paper

☐

2. The office shown below is used by *RGB's* Administration Manager, David Clarke. David has complained about the heat coming from the photocopier and has felt the need to wedge the fire door open. He realises this is a fire safety hazard but is concerned about the uncomfortable working conditions.



Identify which **two** of the following will help maintain a safe and healthy working environment.

[2]

- A. ☐ Switch the positions of the photocopier and the filing cabinet so that the photocopier is further away from David's desk.
- B. ☐ Place a vent in the Fire Door.
- C. ☐ Install a fan to reduce the temperature of the room.
- D. ☐ Continue wedging the Fire Door open.

3. The *RGB* construction site at Lydney has a small wooden shed (shown in the image) to store workers' tools and equipment.



- (a) The site manager is concerned about the shed and would like you to explain the security risks. [2]

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- (b) Identify **two** control measures *RGB* could use in order to protect the tools and equipment. [2]

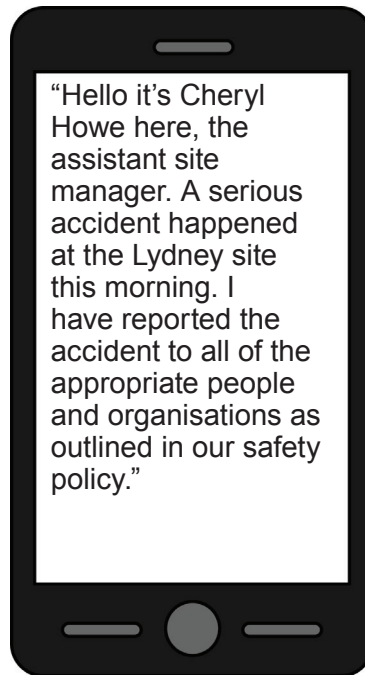
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4.



Using the table below explain why the organisations or groups of people listed should be contacted following a serious accident.

Organisation/group of people	Why contact is beneficial or required
Emergency services [2]	
<i>RGB</i> site management [2]	
The Health and Safety Executive [2]	
The senior management of <i>RGB</i> at the Head Office [2]	

5. The three safety signs shown below can be seen at many of *RGB*'s construction sites. Identify the type and describe the meaning of **each** of the signs.



Type and meaning

[2]

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.....

.....

.....



Type and meaning

[2]

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.....

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Type and meaning

[2]

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6.



We have just received the photo above from a member of the public who was walking past our Lydney site. He was very concerned about the lack of Personal Protective Equipment (PPE) worn by the employee whilst mixing mortar.

- (a) Name **three** items of PPE you would recommend the employee in the photograph should wear. [3]

1.
2.
3.

- (b) Describe the potential effects, on the employee in the photograph, of not wearing the appropriate PPE. [3]

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- (c) Name **one** piece of legislation that applies to this situation. [1]

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7.



RGB provides senior construction staff with laptops and phones. Important information about construction projects and construction staff (including personal details and wage payments) is often kept on one or both devices.

Name and describe **two** things *RGB* could do to ensure the security of information about construction staff held on laptops and phones. [4]

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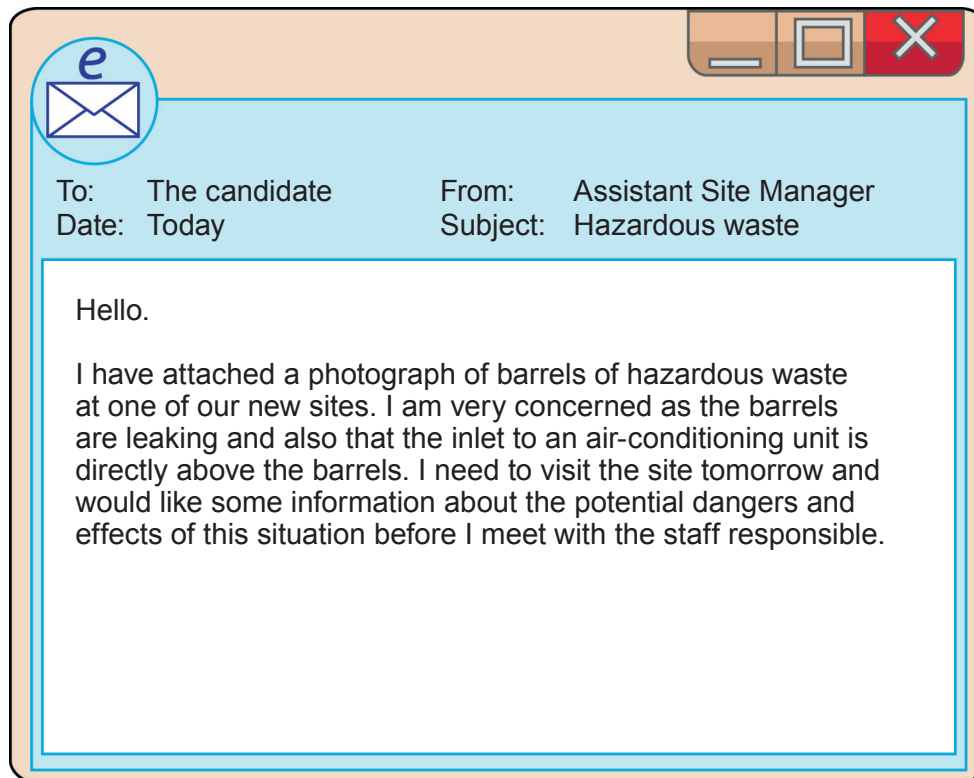
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8.



(a) Name **two** pieces of legislation that may apply in this situation.

[2]

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(b) Describe the potential physical and/or environmental effects of this situation.

[3]

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(c) Name **two** groups of people who could be affected as a result of this situation.

[2]

.....

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1.



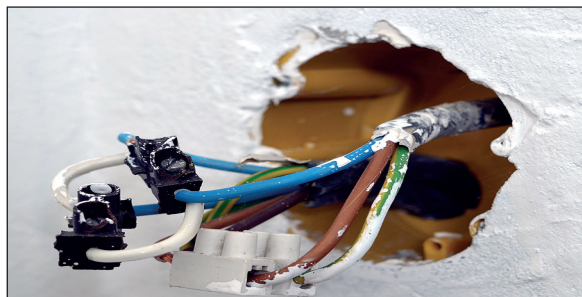
2.



3.



4.



9. (a) The photographs opposite show scenes from our Lydney site. You are required to complete the risk assessment form below. Some of the form has been completed already (shaded in blue).

Hazard 1 (photo 1)
Neither bricklayer is wearing a hi-vis vest or a hard hat.
Risks
Head injuries from not wearing a hard hat. Difficulties in being seen by other employees and in being identified as authorised site staff from not wearing hi-vis vests.
Control Measures
Signage should be in place to emphasise the requirement to wear hi-vis vests and hard hats. Site induction should cover the requirement to wear appropriate PPE. Staff checks on employees to ensure appropriate PPE is being worn at all times.
Hazard 2 (photo 1)
Unsafe and inappropriate working platform.
Risks
Control Measures

[3+3]

Hazard 3 (photo 3)
There is no barrier (other than the cones) to properly protect pedestrians walking past the ongoing work.
Risks
Control Measures

[3+3]

- (b) Identify **one other** Hazard from photos 1-4 not already noted on this risk assessment form.

Examiner
only

Hazard identified
Risks
Control Measures

[1+3+4]

END OF PAPER