

Surname	Centre Number	Candidate Number
Other Names		4



LEVEL 1/LEVEL 2 AWARD

9811/01



CONSTRUCTING THE BUILT ENVIRONMENT

Unit 1: Safety and Security in Construction

Paper version of on-screen assessment

TUESDAY, 12 JUNE 2018 – MORNING

1 hour

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	3	
2.	4	
3.	5	
4.	5	
5.	16	
6.	7	
7.	20	
Total	60	

9811
010001

INSTRUCTIONS TO CANDIDATES

Questions in this examination are based on the context of *JJ International Building Developers (JJ)*, details of which can be found in the introduction.

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

There are 60 marks available in this examination.

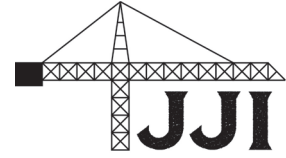
Quality of written communication will be assessed in question **6**.

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

Introduction

JJ International Building Developers (JJJ) was established 25 years ago.

Company director Nell Cory wants to make sure that all of its construction site staff understand all health and safety regulations and comply fully with them. Nell has employed a senior project manager to implement an induction programme which will be followed on JJI Building sites.



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

1. The worker in the photograph is carrying a 50 kg bag of cement.



- (a) What is the maximum load a construction worker is usually allowed to carry? [1]

.....

- (b) What could the worker do in order to reduce the risk of injury? [1]

.....

.....

- (c) Name **one** piece of legislation which covers this situation. [1]

.....

.....

2. The photograph below was taken at our site in Tiverton. This office is fully operational during working hours. The Health and Safety Officer is very concerned about left over materials and office furniture causing problems and has informed staff to improve the situation immediately.



In the event of a fire, describe **two** problems which could arise if the room is not cleared. [4]

1.

.....

.....

2.

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.....

- 3. JJI have an issue with a partly handed over section in phase one of a recently refurbished office block. The site foreman has noticed that the painters have been storing their paint and tools in the electrical mains cupboard shown in the photograph below.

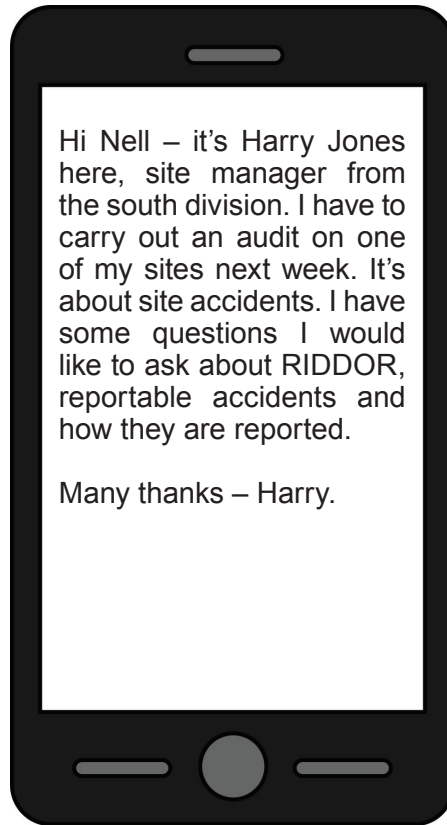


- (a) Identify **two** risks associated with using this cupboard for this type of storage. [2]

- 1.
- 2.

- (b) Suggest **three** control measures that could prevent what you have identified in part (a). [3]

- 1.
- 2.
- 3.



4. (a) If a member of staff is off work for seven days or more as a direct result of a site accident, this would be deemed ‘reportable’. Name **two** other types of ‘reportable accidents’. [2]

1.

2.

(b) Name **two** regulations which cover ‘reportable accidents’. [2]

1.

2.

(c) ‘Reportable accidents’ need to be reported by law. Who do they need to be reported to? [1]

.....

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5. Look at the table below which contains site situations. Complete the table by suggesting a suitable safety sign for each situation which should be displayed giving reasons for each of your choices. [16]

From: JJI Head Office
To: Health and Safety Staff
Subject: Safety Signs
Date: Today

Site situation	Bricklayers cutting paving slabs on paths to new houses.
One suggested sign, its type (shape and colour) and reasons for its choice.	
.....	
.....	
.....	
.....	
.....	
.....	
Site situation	Site vehicles being operated on site.
One suggested sign, its type (shape and colour) and reasons for its choice.	
.....	
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.....	
Site situation	A site office is about to be completed and will house up to fifty employees. Staff will be told at induction that, in the event of a fire, they will have to evacuate the building and meet in the car park (the 'muster point'). The corridors have just been painted and are awaiting new safety signs.
One suggested sign, its type (shape and colour) and reasons for its choice.	
.....	
.....	
.....	
.....	
.....	
.....	

Site situation	For the provision of site power, noisy generators are in use.
One suggested sign, its type (shape and colour) and reasons for its choice.	

7. The photographs below were taken at various JJI construction sites.

Image 1

This is a photograph of the garden of one of our virtually completed houses. The buyers are looking to move into the property immediately.



Image 2

This is a photograph of the interior of one of our partially built houses.



Image 3

This is a photograph of one of our employees in the workshop cutting steel reinforcements for the floor slabs.

**Image 4**

This is a photograph of one of our construction sites in the east division.



- (a) The photographs show scenes from various construction sites. You are required to complete the risk assessment form below. Some of the form has been completed already (shaded in blue).

Hazard 1 (Image 1)
Inappropriately stored material.
Risks (Image 1)
The materials are poorly stored and could easily cause someone to trip – the site should not be dangerous like this. Workers are used to clear areas and such a mess is not expected. Debris could also be blown in the wind as items such as boards and felt are prone to this. Some of the sheet material could be slippery especially when raining.
Control Measures (Image 1)
Rubbish should be removed from site when possible and disposed of correctly. A properly used skip (which is on site) would help greatly. Materials which are to be used should be held safely and securely in appropriate storage.
Hazard 2 (Image 2)
Missing scaffold board.
Risks
Control Measures

[3+3]

Hazard 3 (Image 3)
The employee is cutting the steel reinforcements with no PPE being worn.
Risks
Control Measures

[3+3]

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

Examiner
only

Hazard identified
Risks
Control Measures

[1+3+4]

END OF PAPER