

Surname	Centre Number	Candidate Number
Other Names		0



LEVEL 1/LEVEL 2 AWARD

9811/01



CONSTRUCTING THE BUILT ENVIRONMENT

Unit 1: Safety and Security in Construction

Paper version of on-screen assessment

THURSDAY, 15 JUNE 2017 – MORNING

1 hour

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	3	
2.	3	
3.	2	
4.	4	
5.	9	
6.	16	
7.	3	
8.	20	
Total	60	

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INSTRUCTIONS TO CANDIDATES

Questions in this examination are based on the context of *Contract 20/20 Ltd*, 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 **8(b)**.

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

Introduction

Contract 20/20 Ltd was set up sixteen years ago by Meryl James. It carries out design, build and refurbishment work, and has completed many successful projects. Since starting the business, Meryl has always ensured that all *Contract 20/20 Ltd* sites are safe and secure places to be, with a significant focus on all aspects of health, safety and security. All staff are given induction training and on-going training to ensure that standards are always kept high. Questions within this paper are from the induction pack designed for staff joining the company.



Answer all the questions in the spaces provided.

1.



The worker in the photograph should not be carrying bricks in this way.

(a) What injuries are likely to occur if bricks are carried in this way? [1]

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.....

(b) What could the worker use to carry the bricks safely? [1]

.....
.....

(c) What legislation covers this situation? [1]

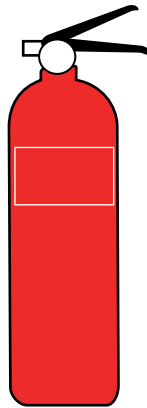
.....
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2.



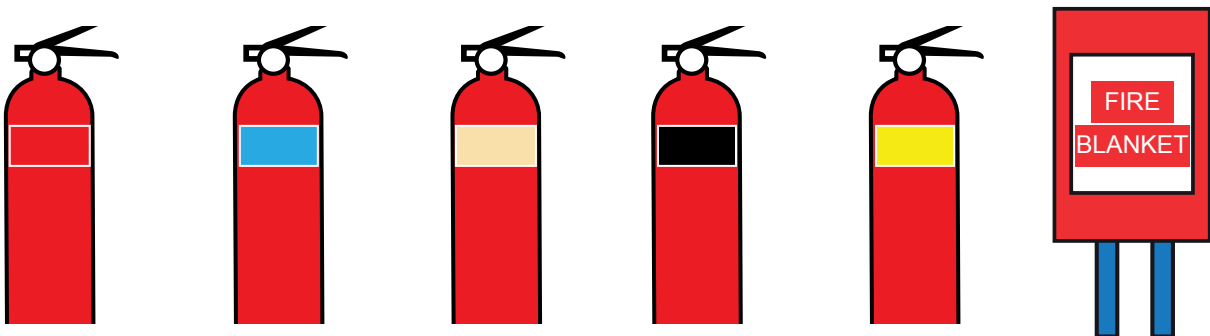
The photographs above show a site canteen which caught fire. The fire started when oil in a pan ignited. A member of the canteen staff immediately used the following type of extinguisher which unfortunately made the fire spread.



(a) What type of extinguisher is this?

[1]

The following extinguishers and a fire blanket were available.



(b) Identify which *one* should have been used on the initial pan fire and state why.

[2]

.....

.....

.....

.....

3.



State the type and meaning of this sign.

[2]

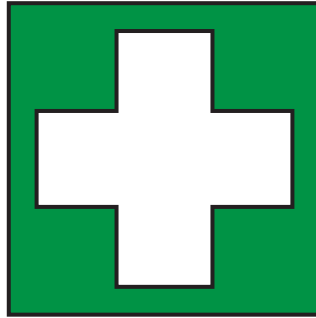
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4.



(a) What is the meaning of this sign?

[1]

.....

.....

(b) What documentation needs to be completed after an accident?

[1]

.....

.....

(c) What do employees need to know about first aid provision when on site?

[2]

.....

.....

.....

.....

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5.



The employee in the photograph has been asked to repair loose pointing in an inspection chamber of a live foul drain.

Identify **three** risks that are present in this situation and for each risk describe a possible control measure.

Risk A [1]

.....
.....

Control Measure A [2]

.....
.....
.....
.....

Risk B [1]

.....
.....

Control Measure B [2]

.....
.....
.....
.....



Risk C

[1]

Examiner
only

.....

.....

Control Measure C

[2]

.....

.....

.....

.....

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6. Many of our new employees will start on jobs which will involve either working at height or laying drainage. The working at height photographs show a worker breaching health and safety regulations and he is putting himself at risk. The drainage photograph shows construction work where health and safety regulations have also been breached and the public and our workers are put at risk.



(a) You have been asked to provide notes to accompany the photographs which explain the risks and the possible outcomes of those risks as a direct result of the identified breaches of health and safety regulations.

(i) Working at height photographs [2]

Risks

.....
.....
.....
.....

Severity of risks [3]

.....
.....
.....
.....
.....

(ii) Laying drainage photograph
Risks

[2] Examiner only

.....

.....

.....

.....

Severity of risks

[3]

.....

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.....

.....

.....

(b) We are aware of the need for our company to comply with regulations and we take training in health and safety very seriously. The Health and Safety Executive (HSE) is the body which ensures that all construction companies comply with health and safety requirements.

Explain the likely course of action a HSE inspector would have followed had they visited the two sites at the time the photographs were taken.

(i) Working at height

[3]

.....

.....

.....

.....

.....

(ii) Laying drainage

[3]

.....

.....

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.....

.....

7. The lifting platform pictured below was stolen from one of our sites. It is likely it was driven out of the site and loaded onto a low loader. This is the most expensive of the vehicles stolen from our sites, but not the only one.



Identify **three** measures we could take to help prevent the theft of our site vehicles. [3]

1.

.....

2.

.....

3.

.....

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Photo 1.



Photo 2.



Photo 3.



Photo 4.



8. (a) The photographs opposite show scenes from some of our construction sites and have been put together for the induction test. 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)
Photo 1 was taken of a member of construction staff being taken for a ride by the vehicle operator, copying a YouTube video they saw. There is a hazard of falling out of the bucket and also of being violently thrown around inside the bucket.
Risks (Photos 1 & 2)
The member of staff could fall from the bucket and sustain serious injury. They could also sustain injury from being thrown against the sides of the bucket. Photo 2 was taken a few minutes later.
Control Measures (Photos 1 & 2)
Signs could be placed in the cab of the vehicle noting that such activities are banned. Induction training could emphasise that staff should not do this or any other actions with this machinery which are obviously highly dangerous.
Hazard 2 (Photos 3 & 4)
Lack of PPE being worn – no goggles (member of staff on the right), no hard hat, no high-vis vest.
Risks
Control Measures

[3+3]

Hazard 3 (Photos 3 & 4)
No appropriate working platform in place.
Risks
Control Measures

[3+3]

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

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only

Hazard identified
Risks
Control Measures

[1+3+4]

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