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# **LEVEL 1 & 2 MARKING SCHEME**

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**SUMMER 2019**

**LEVEL 1 & LEVEL 2  
CONSTRUCTING THE BUILT ENVIRONMENT - UNIT 1  
9811/01**

## **INTRODUCTION**

This marking scheme was used by WJEC for the 2019 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.

## LEVEL 1 & 2 CONSTRUCTING THE BUILT ENVIRONMENT

### SUMMER 2019 MARK SCHEME

#### Q1

- (a) Maximum of 3 marks – one for each valid point

Unable to gain access to site toilet (1)  
No guardrail where worker is using machinery (1)  
No PPE worn (other than gloves) (1)  
Slip and trip hazards all over the site (1)  
Any other acceptable response (1)

- (b) Immediately close the site (1)  
Any other acceptable response (1)

- (c) Maximum 1 mark for a valid statement

Take them to court (1) Issue an improvement notice (1) Any other acceptable response(1)

#### Q2 Maximum 3 marks for 3 valid responsibilities

Don't use the disc cutter (1)  
Alert others not to use (1)  
Report to the site manager (1)

Accept (max one mark regardless of the number of such responses given):  
Have cable properly attached (1)  
Change cable (1)  
Unplug/remove/make safe (1)

#### Q3 Maximum of 2 marks

COSHH (1)  
HASAWA (1)  
Control of asbestos (1)  
RIDDOR (1)

#### Q4

- (a) 2 marks maximum - Any extinguisher other than Water and Wet Chemical are acceptable eg Co2 and Dry Powder (1) for correct extinguisher. Reason for using is that they are safe to do so (1)
- (b) 2 marks maximum - Water or Wet Chemical (1) Reason for not using relates to danger of shorting or conduction (1)

## Q5

Maximum of 4 marks for each of the three situations given. Two acceptable control measures each with a reason.

Mixing cement by hand
Use of safety goggles, boots, gloves and overalls (1) goggles for eye protection – injury and disease (1) Overalls – prevents burns to skin (1) Gloves – prevents burns to skin/dermatitis (1) boots – prevents foot damage from shovel and burns to skin (1) Any other appropriate response
Cutting ceramic floor tiles with an electric tile cutter
Specialist gloves (1) – helps prevent damage to hands (1) Safety Goggles (1) – helps prevent injury to eyes from flying particles (1) Any other appropriate response
Using an industrial saw to cut large timber beams in a workshop
Safety guard(s) (1) – helps prevent saw blade causing injury to self and others (1) Signage (1) – helps remind operatives of dangers present (1) Any other appropriate response

## Q6

1 mark for each correctly associated sign – maximum 2 marks

1 mark for each correctly written missing text – maximum 2 marks

Missing Text:

No unauthorised access (1)

High visibility vests/jackets must be worn (1)

Signs selected:

Yellow triangle 'falling man' sign - deep excavation (1)

Blue circle with safety helmet – Wear hard hats (1)

## Q7

- (a) (i) Maximum 2 marks – 2 identified risks to children:

Risks to children (one mark for each to a maximum of two) – Injury or death on site by falls, drowning, crush injury, stuck in fence, fall from height, injury through use of equipment, electrocution, hazardous substances and any other appropriate response.

- (a) (ii) Maximum of 3 marks - Measures – identification of an appropriate control measure (1) with a description (1) and a reason for its choice (1).

Example: Use of CCTV (1) this would see cameras videoing the whole site and the footage can be monitored by a member of security staff (1) if staff note any children on site then they can inform the police and have a member of staff visit the site immediately (1).

- (b) (i) Maximum 2 marks – 2 identified risks to the site:

Theft of equipment, damage of equipment, damage of vehicles, theft of vehicles, theft of materials, vandalism and any other appropriate response.

Accept risk of HSE closing site or taking legal action.

- (b) (ii) Maximum of 3 marks - Measures – identification of an appropriate control measure (1) with a description (1) and a reason for its choice (1).

Example: security guards on duty outside site working hours (1) this would see staff patrolling the whole site ensuring there are no unauthorised people (including children) present (1) if staff note any children on site the they can take appropriate action and possibly inform the police.

## Q8

For each photograph - maximum of 5 marks. 1 mark for the identification of a hazard, 2 marks for a description of the associated risks and 2 marks for the recommendation for suitable control measures.

### Photograph 1

Hazard - Unsafe platform (note wheels and or plank – unstable) (1)  
There is a risk of the platform moving which could lead to a fall and injury (2)  
Any other acceptable response – description required for 2 marks

Control measures recommended: cover the hole to ensure platform is more stable (2)  
Any other acceptable response – recommendation and valid reason required for 2 marks

### Photograph 2

Hazard - The way the ladder is being used and supported is not acceptable and unsafe

Risks - The ladder could fall meaning the member of staff could also fall and injure themselves (2)  
They could land on the stairs which can be more dangerous than a flat floor (1)  
The other member of staff could also be injured (1)

Control measures recommended: use a proper work platform - this would be for better than the ladder as it is the safe and appropriate way to carry out the work (2)

Accept lack of PPE such as hardhats and goggles

Accept using rollers with extendable handles as an alternative to the platform

### Photograph 3

No guardrail for worker protection – could lead to fall whilst using jackhammer (1)  
PPE not used (goggles ear defenders and hard hat) (1)  
Risk of slipping and injury from fall (2). Injury could be from jackhammer rather than just the fall – serious injury could occur (2)

Control measure recommended: fitting of guardrail to help prevent a fall (2)  
Signage to ensure specified PPE is worn so as to minimise the associated injury (2)  
Training to be given to ensure workers are aware of risks and dangers for a specified activity (2)

Risk of eye damage through no goggles being worn – ear damage through no ear defenders being worn – head injury through no hard hat being worn – Respiratory problems due to no dust mask being worn (each 2 marks)

Any other acceptable response – description required for 2 marks

### Photograph 4

Site vehicle is working in an unstable manner over a trench where workers are present (1)  
The site vehicle could slide or fall into the trench causing injury to the workers below (2)  
Any other acceptable response – description required for 2 marks

Barrier to prevent site vehicle from being placed in such an unstable position (2)  
Signage could be used to ensure workers do not place themselves in such dangerous situations (2)  
Any other acceptable response – recommendation and valid reason required for 2 marks

**Coverage of content by LO and by question**

<b>LO</b>	<b>Mark distribution</b>	<b>AC</b>	<b>Marks</b>	<b>Total</b>
1	12 - 18	1.1	5	15
		1.2	4	
		1.3	4	
		1.4	2	
2	12 - 18	2.1	9	17
		2.2	8	
		2.3	0	
3	18 - 24	3.1	0	20
		3.2	20	
4	6 - 12	4.1	2	8
		4.2	6	

<b>Question</b>	<b>AC coverage</b>
1	2.1 = 3 marks 1.4 = 2 marks
2	1.1 = 3 marks
3	1.1 = 2 marks
4	1.3 = 4 marks
5	3.2 = 12 marks
6	1.2 = 4 marks
7	2.1 = 2 marks 4.1 = 2 marks 4.2 = 6 marks
8	2.1 = 4 marks 2.2 = 8 marks 3.2 = 8 marks