



MARKING SCHEME

LEVEL 1/2 AWARD IN CONSTRUCTION

SUMMER 2016

INTRODUCTION

This marking scheme was used by WJEC for the 2016 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.

Safety and Security – Level 1 and 2 Construction

Question	Answer	Marks
1.	Wood Paper	2
2.	A & C	2
3. (a)	Easy to enter(1) Theft of expensive tools and equipment(1) Windows allow anyone to view what is kept in the storage shed(1) Flimsy internal door used externally – poor security(1) No CCTV apparent(1)	2
3. (b)	Fit steel shutters to door and window (1) Fit bars on window (1) Install CCTV (1) PIR (1) Fit alarm (1) plus any other appropriate response	2
4.	Emergency services – may need to liaise with family (1) – may need to investigate the accident (1) RGB site management – Need to be aware of what has occurred (1) Need to be able to prevent a re-occurrence (1) HSE – Need be informed (by Law) (1) May require and investigation (1) May prompt a visit (1) RGB Head Office management – Need to be made aware (1) May need to investigate further (1) May need to take immediate action such as closing the site or part of the site (1)	8
5. (a)	Mandatory (1) Safety gloves must be worn (1)	2
5. (b)	Warning sign (1) Forklift trucks in operation (1)	2
5. (c)	Prohibition (1) Pedestrians Prohibited (1)	2
6. (a)	Named three of the following (one mark each): Hard Hat – Hi visibility Vest – Safety Boots – Safety Goggles – Dust mask – Gloves	3

Question	Answer	Marks
6. (b)	<p>Named three potential effects (one mark each) - Hard hat – Head injury from flying debris - Hi visibility vest – unable to be seen by other workers – especially driving site</p> <p>vehicles – Safety boots – foot injury from dropping debris or from equipment being used – Safety goggles – eye injury from flying debris – Dust mask – inhaling dust particles - Gloves – dermatitis could be contracted or cement burns</p>	3
6. (c)	HASAWA(1) – COSHH (1) – plus any appropriate response	1
7.	<p>Password protection (1) personal login details would make it more difficult from any</p> <p>Un-authorized users to access (1)</p> <p>Laptops may not be taken off the work premises (1), kept in a secure location when not in use (1)</p> <p>Information on phones and laptops to be uploaded onto a network and then deleted</p> <p>from the device used so no confidential information is left on the laptops or phones</p>	4
8. (a)	<p>HASAWA (1) Storage of Hazardous Substances (1) COSHH (1)</p> <p>Or any other piece of legislation deemed appropriate</p>	2
8. (b)	<p>Fumes could enter the building via the inlet (1)– this could be dangerous for staff working inside (1) The ground could become contaminated(1) – this could be dangerous and very costly to rectify (1) Leakage could be combustible liquid or fumes (1) – this could cause fire or explosion (1) Could be caustic (1) and could present a danger of burns to any workers coming into contact (1)</p>	3
8. (c)	<p>Two groups of people identified from the following:</p> <p>Workers within the building (1) Workers operating outside near the barrels (1)</p> <p>staff responsible for removal and rectification of hazard (1) Site security (1)</p> <p>Any other appropriate group (1)</p>	2

Question	Answer	Marks
9.	<p>Risk – workers could fall from height – no proper guard rail – possible danger of Collapse – could also injure people below</p> <p>Control Measure – Erect appropriate working platform which extends the entire Working area and provides a safe environment for workers both on the platform and working below</p> <p>Risk – Injury to pedestrians – could fall as only cones in place- people will also be too close to the working area and could be injured by the machinery – workers not fully protected from passing traffic</p> <p>Control measure – ensure a safe designated walkway for public/workers which is a safe distance from machinery and work being undertaken – increased signage to warn people of the danger – if appropriate, a barrier could be erected to protect workers from passing vehicles – re-route vehicles away from the working area</p> <p>Hazard – Bricks – not properly stored</p> <p>Risk – trip and/or fall injury which could cause injuries ranging from cuts and bruises to broken limbs – could even lead to a fatality</p> <p>Control measure – create proper storage facility for bricks – put in place a system to ensure bricks or other materials are stored in a safe area</p> <p style="text-align: center;">OR</p> <p>Hazard – Wiring – despite being no exposed live ends visible, such exposed wires should not be permitted</p> <p>Risk – if a worker accidentally exposes a live wire, this could cause injury from electric shock – it could also lead to a fire with potentially fatal consequences</p> <p>Control measure – System in place to ensure any exposed wiring is not allowed to be left visible – warning signs could help alert people of the danger – a system could be put in place to ensure wiring is isolated until work completed – a sign could indicate the area is off limits to all workers other than those involved with the electrical installation</p>	<p>3</p> <p>3</p> <p>3</p> <p>3</p> <p>1</p> <p>3</p> <p>4</p> <p></p> <p>1</p> <p>3</p> <p>4</p>