

Mark Scheme (Results)

Summer 2012

ELBS Environmental and Land-Based Studies
Plants & Animals – Safe Working Practices
and Relevant Legislation
ES306 01

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Question Number	Example answers	Mark
1(a)	<p>Award 1 mark for a correct piece of PPE linked to a realistic operation and one mark for the reason as to why it is used. For example:</p> <p>Pickers would wear a harness (1) so that they could not fall out of the platforms they are picking from (1)</p> <p>Pickers would need to wear sunglasses (1) as the light is always the equivalent of strong sunlight which would damage their eyes (1)</p> <p>Strong gloves/ face masks (1) as nutrients may have to be added to the water manually at times (1)</p> <p>Hard hats (1)</p> <p>Any other realistic response</p>	(6)

Question Number	Indicative Content	
1(b)	<p><i>The candidates are not expected to deal with every possible point and may be rewarded well for a comparatively small number of points if these are developed and supported by relevant evidence. This list is not exhaustive</i></p> <p>Chemicals in water that may be eventually released causing poisoning of water supplies for population and/or wildlife</p> <p>Extraction of groundwater lowering it unsustainably with knock on effects on supply elsewhere or river levels</p> <p>Predator insects escaping and causing imbalances in local ecosystems</p> <p>Light pollution causing changes to local diurnal cycles or nuisance to the local residents</p>	
Level	Mark	Descriptor
	0	No rewardable material
1	1-3	Some of the risks are briefly described but there is minimal development or indication as to how they are a danger to the environment
2	4-6	Sound analysis of at least one of the possible danger areas. Development shows understanding the possible risk to the environment
3	7- 8	Focused responses with sustained analysis and application dealing with at least two of the potential problems.

Question Number	Indicative Content
1(c)	<p><i>The candidates are not expected to deal with every possible point and may be rewarded well for a comparatively small number of points if these are developed and supported by relevant evidence. This list is not exhaustive</i></p> <p>Influences on actions depending on severity of the incident. Actions and the reasons for taking them to include Plan of action to include: by whom Entering details of accident in Accident Book. Inform appropriate people to include senior staff, Health and Safety Executive, police and relevant emergency services, insurance company</p>

Level	Mark	Descriptor
	0	No rewardable material
1	1-2	Basic responses that essentially outline some of the requirements of HASAWA, RIDDOR and other relevant legislation
2	3-4	Responses with some explanation. There will be some order in the suggestions, with some explanation as to why it takes place
3	5-6	Focused responses with sustained explanation and application. There is a sound order and explanation for the actions suggested

Question Number		Indicative Content
1(d)		<p><i>The candidates are not expected to deal with every possible point and may be rewarded well for a comparatively small number of points if these are developed and supported by relevant evidence. This list is not exhaustive</i></p> <p>Information could relate to any aspect of operations - how procedures are carried out, the role of risk assessments, the financial benefits of health and safety improvements, financial downside of accidents, risk assessments</p> <p>Candidates who use information from the stimulus effectively should be credited.</p>
Level	Mark	Descriptor
	0	No rewardable material
1	1-3	Basic responses that do little more than describe some health and safety procedures. Material is essentially generic.
2	4-6	Responses with some explanation/application. Responses are applied to a named organisation in part at least. There is linkage of legislation with its effects.
3	7-8	Focused responses with sustained explanation and application. A range of issues is considered for a named organisation and detailed linkage of the requirements of legislation and its effects on operations.

Question Number	Answer	Mark
2(a)	<p>Award 1 mark for each correct point regarding the characteristics/uses of QICs</p> <p>Cards that supply information on a variety of plant pests and diseases (1). Use both images and text to demonstrate the symptoms (1).</p>	(2)

Question Number		Indicative Content
2(b)		<p><i>The candidates are not expected to deal with every possible point and may be rewarded well for a comparatively small number of points if these are developed and supported by relevant evidence. This list is not exhaustive</i></p> <p>Importers of controlled material must be registered</p> <ul style="list-style-type: none"> • Notification of consignments of restricted material has to be made to customs • Some plant material (with most common problems) is automatically held for inspection • Importers responsibilities include payment for these checks and notification of (suspected) presence of pests • Issue of phytosanitary certificates
Level	Mark	Descriptor
	0	No rewardable material
1	1-2	Basic responses that essentially outline how methods - passports - are used.
2	3-4	Responses with some explanation/application. Methods used are linked to how this helps to control plant quality. Some indication of benefits to businesses/environment is given.
3	5-6	Focused responses with sustained explanation and application. Use of plant passports is clear and benefits to businesses and the environment are realistic.

Question Number	Answer	Mark
2(c)	<p>Award 1 mark for each correct explanatory point. For example:</p> <p>May be cheaper due to economies of scale (1) separate plant will have specialist equipment that can pack faster/more efficiently (1) especially as they are growing more than one type of fruit/vegetable (1). Specialist more likely to guarantee quality control and customer health (1)</p> <p>Processing plant may be able to get better price with customers (1) as the larger bulk gives greater purchasing power (1)</p>	(4)

Question Number		Indicative Content
2(c)(ii)		<p><i>The candidates are not expected to deal with every possible point and may be rewarded well for a comparatively small number of points if these are developed and supported by relevant evidence. This list is not exhaustive</i></p> <p>HACCP procedures should be used to show how the on-site plant would have controls in place, identifying critical points, determining their importance, implementing measures and reviewing their effectiveness.</p> <p>Typical areas of focus might be entrances for workforce/exit for produce as source of contamination/escape of predators, produce taken openly to packing shed, chemical addition, selling to public by roadside, initial water purity</p>
Level	Mark	Descriptor
	0	No rewardable material
1	1-4	Basic responses that show some understanding of the HACCP process but with little attempt to apply this to the given floor plan.
2	5-7	Responses with some explanation/application. Sound understanding of HACCP with some application to the given information. Explanation may well identify where the problems are but without indicating how this identification will be beneficial to the business of the issue.
3	8-10	Focused responses with sustained explanation and application. CCPs will be identified and benefits of the process to the organisation clearly stated.

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