

# Mark Scheme (Results)

## January 2010

Principal Learning

**Environmental and Land-Based Studies  
ES306 Plants and Animals**

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**Level 3 Unit ES306**  
**Plant and Animals - Safe Working Practices and Relevant Legislation**

Question Number	Answer	Mark
1(a)	<p>Point mark, awarding 1 mark for each explanatory point. This may include information about what a QIC contains if it is then linked to controls.</p> <p>For example:</p> <p>QICs contain details of diseases such as the symptoms (1) and the way in which the disease develops (1). Checking of plant characteristics by appropriate authorities e.g. DEFRA (1) to enable them to identify the outbreak of any new disease (1). Measures such as isolation could then be put in place (1).</p>	(4)

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> <ul style="list-style-type: none"> <li>• Need to safeguard food and resource supply e.g. in view of population growth/potential climate change etc</li> <li>• Individual organisations would suffer from any serious outbreak of disease - loss of earnings, reduced reputation affecting future earnings</li> <li>• Restrictions would be placed on movement to and from farms, affecting large numbers of other organisations also.</li> <li>• Wider effects on the economy of loss of primary production, need for imports etc</li> <li>• Effects on native flora and fauna</li> </ul>

Level	Mark	Descriptor
	0	No rewardable material
1	1-2	Simple statements indicating possible benefits to industry and/or country
2	3-4	Some explanation of at least one benefit is evident. These could be social/economic or environmental and the benefit should be explicit to the industry, the economy or specific (group of) people
3	5-6	Sound explanation of 2 or 3 social/economic or environmental benefits that are linked explicitly to the industry, the environment, the economy or specific (groups of) people.

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> <ul style="list-style-type: none"> <li>• Importers of controlled material must be registered</li> <li>• Notification of consignments of restricted material has to be made to customs</li> <li>• Some plant material (with most common problems) is automatically held for inspection</li> <li>• Importers responsibilities include payment for these checks and notification of (suspected) presence of pests</li> <li>• Issue of phytosanitary certificates</li> </ul>
Level	Mark	Descriptor
	0	No rewardable material
1	1-3	Discussion is very generalised with little more than a list of the types of control that are put in place
2	4-6	Discussion is developed with some indication of how the controls will affect importing of plants
3	7-8	Discussion of implications is fully developed with secure awareness demonstrated of how the import controls operate to ensure clean plants only gain entry. May also have evaluative comments as to effectiveness of these procedures.

Question Number		Indicative content
1(d)		<p>Major parts of a risk assessment should be considered, including:</p> <p>Severity Likelihood Overall risk rating Introduction of management measures Reviewing in light of management measures Responses are not required to carry out an actual risk assessment but to demonstrate how it would be used, although a risk assessment containing explanatory material is a possible route to achieve level 3. Similarly actual measures to minimise risk in this case should not be expected but would be worthy of credit if offered in support argument.</p>
Level	Mark	Descriptor
	0	No rewardable material
1	1-2	Some of the elements of a risk assessment are described but there is no overall impression of a structure to these elements.
2	3-4	The various stages of a risk assessment are described but with some relation to the scenario described. Explanation is partial.
3	5-6	The purpose of the risk assessment stages is explained and linked consistently to the specific problem that has been posed. Examples from the quotes may be used to demonstrate the purpose of each part

Question Number	Answer	Mark
2(a)	<p>Award 1 mark for each explanatory point. For example:</p> <p>The crops are lifted to take away the source of infection (1)</p> <p>The disease can be spread so it may be on surrounding crops already so they are lifted to reduce possibility of further spread (1). They need to ensure at least some of the crop survives as they need to use them throughout the year but blight reduces storage time (1)</p>	(3)

Question Number	Answer	Mark
2(b)	<p>For each of 3 possible hazards award marks as follows:</p> <p>First mark for identification of the hazard with some indication as to why it is a hazard.</p> <p>Second mark for development as to how this could cause a problem or how it may be contravening legislation</p> <p>Third mark for a realistic measure that could be taken to minimise the risk.</p> <p>For example:</p> <p>Drivers are being made to work for too long so they will be tired when they work (1) . this may increase the number of accidents, for example by falling asleep at the wheel of the harvester (1). The farm should ensure that there is a limit placed/the legal limit should be observed on the number of hours staff work (1)</p>	(9)

Question Number	Indicative content	
3(a)	<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>References could be made to :            Poor publicity, decreased funding etc            Prosecution with possible fiscal penalties            Effects on workforce, both directly through loss of staff time and through poor motivation if procedures are not seen to be beneficial to them            Possible positive effects of tightening up of procedures</p>	
Level	Mark	Descriptor
	0	No rewardable material
1	1-2	Simple statements that indicate possible effects from the above list
2	3-4	Basic evaluation of impacts. At least one impact is developed so that its potential effects on the farm's operation is given some weight. Impacts may well be to people rather than farm operations, particularly at the lower end of this level
3	5-6	Sound evaluation of at least two impacts directly linked to the operation of the farm. To achieve top of the level there should be reference to both positive/negative or internal/external effects.

Question Number	Indicative content	
3(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>Use of accident book in response to legislation ensuring that causes need to be reviewed, patterns of accidents seen and procedures changed</p> <p>Correct implementation of HASAWA in ensuring correct training and making employees aware of their responsibilities to themselves and others.</p> <p>Role of safety officer in ensuring staff/visitors are aware of dangers</p>	
Level	Mark	Descriptor
	0	No rewardable material
1	1-3	Simple statements indicating how the actions described show that they are following legislation. Minimising risk of future accidents may well be ignored. E.g. the accident book merely used as a record.
2	4-6	Some explanation which links at least one of the described actions with legislation that will help to improve safety at the farm. Specifics of legislation should be apparent - this will probably be HASAWA but could contain reference to others, especially RIDDOR. There should be some reference to its role in minimising future accidents
3	7-8	Detailed explanation explicitly linking the actions, specific legislation and improvements in safety at the farm. These improvements should be specifically linked to the role of minimising future accidents.

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