

# Mark Scheme

## Sample Assessment Material

Principal Learning

### Environmental and Land based Studies (ES306/01)

## General guidance on marking

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Examiners should look for qualities to reward rather than faults to penalize. This does NOT mean giving credit for incorrect or inadequate answers, but it does mean allowing learners to be rewarded for answers showing correct application of principles and knowledge, and for critical and imaginative thinking. Examiners should therefore read carefully and consider every response; even if it is not what is expected it may be worthy of credit. The Principal Examiner or Team Leader should be consulted as necessary.

Question Number	Correct Answer	Mark
1	<p>To include:</p> <p><b>How it can occur-</b></p> <p>1. Children stroking the animals and then hand to mouth eating (1)</p> <p>2. Animals touch the rails and then visitors touch them as well (1)</p> <p>3. Sheep graze in the picnic area and could leave disease (1)</p> <p><b>How it can be prevented-</b></p> <p>1 &amp; 2. Washing hands before eating after contact with animals (1 +1)</p> <p>3. Ensuring that sheep are kept away from picnic area (1)</p> <p>Or any other suitable answer</p>	(6)

Question Number	Correct Answer
2	<p>To include:</p> <p>Withdrawal period - what it is</p> <p>Purpose of withdrawal period for human health - used to ensure that levels of drugs within the meat/milk etc will have fallen to below the recommended levels for safe human consumption; to prevent acute illness or the build up of toxins in humans.</p> <p>Implications of correct procedure not being followed:</p> <p>Business faces prosecution - why the business may face prosecution, reasons for prosecution (legislative requirements)</p> <p>Loss of business reputation - why the business's reputation may suffer, loss of customers, loss of revenue</p> <p>Or any other suitable answer.</p>
0	No relevant discussion offered
1-3	Discussion of implications is generalised with limited consideration of some implications to business if procedure not followed
4-6	Discussion of implications is developed with clear consideration of many implications to business if procedure not followed
7-9	Discussion of implications is fully developed with secure awareness demonstrated of most implications to business if procedure not followed

Question Number	Correct Answer	Mark
3	<p>Explanation to include:</p> <p><b>Workers</b> - high danger - due to proximity with animals(1) and frequency of contact (1)</p> <p><b>Visitors</b> - low danger - unless sheep wander into public areas (1) after dipping or public enter forbidden areas (1)</p> <p><b>Environment</b> - medium danger - typically, if water-borne, killing invertebrates/fish (1) Possible pollution to water table (1)</p> <p>Or other suitable answers.</p>	(6)

Question Number	Correct Answer
4	<p>Relevant Legislation must include Health and Safety at Work Act 1974</p> <p>Influences on actions depending on severity of the incident.</p> <p>Actions and the reasons for taking them to include:</p> <p>Entering details of accident in Accident Book.</p> <p>Inform appropriate people to include senior staff, Health and Safety Executive, police and relevant emergency services, insurance company.</p> <p>Plan of action to include: by whom/date.</p> <p>Or any other suitable answers.</p>
0	No relevant discussion offered
1-3	Justification of actions to be taken is generalised with limited consideration of order in which actions should take place
4-6	Justification of actions to be taken is developed with clear awareness of order in which actions should take place
7-9	Justification of actions is fully developed with secure awareness of actions to be taken and appropriate order in which actions should take place

Question Number	Correct Answer
5	<p>Discussion to include:</p> <p>Must ensure that their cattle have 'passports '</p> <p>They have to inspect the cattle and/or sheep for signs of disease</p> <p>They have to notify the BCMS of the movement within 3 days of the movement taking place</p> <p>Sheep need to be accompanied by a completed AML (Animal Movement Licence) movement document</p> <p>DEFRA would impose restrictions on farms - these might include no visitors and they might be stopped from taking cattle to markets to sell them, reducing the farm's income. They would have to spend more money feeding them as they could not sell them.</p> <p>Biosecurity hazards and methods such as:</p> <p>Animals from the neighbouring farm could come into contact with Willwood's animals. If these animals are diseased then the disease could be transmitted to Willwood's animals. This problem may be resolved by the use of fences <u>and</u> inspecting them regularly to ensure that they are in good condition.</p> <p>When new stock is bought it should be separated from existing stock because the new stock may have disease if its previous owner didn't check for this and this would be passed to existing farm livestock. This problem may be resolved by the use of fences <u>and</u> inspecting them regularly to ensure that they are in good condition.</p> <p>Visitors' shoes may carry micro organisms that could infect stock. All visitors should pass through chemical baths to remove such organisms.</p> <p>Or any other suitable answer.</p>
0	No relevant discussion offered
1-4	Discussion is generalised with limited consideration of biosecurity requirements
5-7	Discussion is developed with clear awareness of how biosecurity requirements
8-10	Discussion is fully developed with secure awareness of biosecurity requirements

Question Number	Correct Answer
6	<p>To include:</p> <p><b>Examples- hazard points:</b>  Where the milk enters the production line  In the empty pots before they are filled  In the fruit introduced into the milk</p> <p><b>Benefits-</b>  It will show you how people and/or objects move around during the production process. This will give an indication of where any cross-contamination could accidentally occur</p> <p><b>Four stages-</b>  Do control measures exist?  Does the process eliminate or reduce the hazard to an acceptable level?  Is the hazard acceptable?  Remedial action needs to be identified  Or any other suitable answer.</p>
0	No relevant evidence provided
1-4	Limited assessment. May consider only one benefit to the farm business of using some quality control processes
5-7	Some evidence of assessment. Will consider more than one benefit to the farm business of using a range of quality control processes
8-10	Clear assessment which considers most benefits and a wide range of quality control