

## **ASSESSMENT FRONT SHEET**

Candidate Name:		Registration No.	
Centre:			
Level:	3	Units:	<div style="color: #4F81BD;">Housing and biosecurity barriers in laboratory animal facilities</div> <div style="color: #4F81BD;">Disease control</div>
<b>Plagiarism and collusion statement:</b> Submission of this document certifies that work contained in this assessment was researched and prepared by me. <b>Candidate signature:</b>			
Assignment Feedback / Skills Development Comments:			
Referred for below reason.	Signed:	Date:     /     / 200	
		Re-submit by Date:     /     / 200	
<b>Overall assignment mark</b>  <b>Fail / Pass / Merit / Distinction</b> (Please circle)	Tutor/Assessor: (print name here) Signed:	Date:     /     / 200	
Second Marker/Internal Verifier Comments:			
Signed (Internal Verifier):	Print Name:	Date:	
Signed (IAT moderator/EV):	Print Name:	Date:	

This page should be the first page of your assignment.  
 This is where we grade your work.

## Passing assignments

- Remember to read the question and grading criteria carefully, and relate it back to the syllabus. You are marked on how you satisfy the Learning Outcomes and the Grading Criteria. Always give as much detail as you can and relate the information to the work of an animal technologist.
- Read any support notes that you have been given.
- Try to use your own experiences to support your answers where possible.
- Word counts are minimums. Good diagrams will reduce the need to write for the full word count, and often help clarify answers.
- Your answers should be planned, detailed and thorough. There is no end of year exam, so you must produce good quality assessments if you are to pass.

## Referencing

- Reference material should be clearly identified and acknowledged. Plagiarism is where you use other peoples work as your own. This is not allowed. You should research your work and use the research to complete the assessments you have been given. Make a note of where you got the information and reference this in your assessment. Notes on referencing are on the web and in your student handbook.
- Do not cut and paste or copy large chunks of others people work.
- Collusion is where you work with another student and submit very similar assessments. You can work with others, but the work you submit must be your own.

## Deadlines

- The assignment must be received before the hand in date. Late work may incur penalties, for example you may not get assignment feedback or may not be eligible for higher grades where the possibility of collusion or plagiarism is increased. Please ensure you leave adequate time if you are posting the assignment.

## Assignment format

- You are strongly advised to word process your assessment as you can utilize spell & grammar check to improve the quality of your final work.
- Assignments should include all the tasks in **ONE** file and in order (Task 1, Task 2 etc) and not as separate tasks.
- You are advised to upload it directly to the server, as this is the most secure way of getting it to me. There is information on how to do this in the General Section of the website. You will also get faster and more comprehensive feedback by this method.
  - a. If you email the assignment, make sure you include all relevant pages and diagrams etc. and double check that you have attached the submission to your email.
  - b. The postal addresses and emails are:

This assignment covers two units. We have identified where the Learning Outcomes are covered. It is possible to pass one unit and not the other depending on how you cover the Learning Outcomes. Use the syllabus and learning outcomes to guide you so you cover both units effectively.

## Housing and biosecurity barriers in laboratory animal facilities

	Learning Outcomes	Assessment Criteria		
		Pass	Merit	Distinction
<b>1</b>	Explain how the organisation of the animal facility maintains an appropriate health status for the animals and the scientific procedures.	1.1 Describe suitable routines and housing conditions for laboratory animals housed for different scientific purposes. 1.2 Explain how routines and housing conditions may change given specified conditions. 1.3 Evaluate the use of barriers in controlling the animals' health status.	Discuss how the organisation and routines in the workplace are designed to meet specific supply or experimental needs.	Evaluate the factors that limit the design options for an ideal animal facility.
<b>2</b>	Know relevant health and safety legislation and practices.	Describe how the health and safety of the animals and people is maintained.		

## Disease control

	Learning Outcomes	Assessment Criteria		
		Pass	Merit	Distinction
<b>1</b>	Identify potential disease risks in the animal facility.	<p>1.1. Discuss potential sources of disease in the animal facility.</p> <p>1.2. Recognise examples of laboratory animal parasites.</p> <p>1.3. Describe the life cycle of some common laboratory animal disease organisms.</p>	Apply knowledge of the lifecycle to disease control methods.	Using relevant examples explain how barriers exclude pathogens.
<b>2</b>	Evaluate methods for minimising the risks from potential disease organisms.	<p>2.1. Explain methods for minimising the risk from disease organisms.</p> <p>2.2. Apply suitable disease control methods under specified conditions.</p>	Discuss how the organisation and routines in the workplace are designed to reduce the spread of disease organisms.	Evaluate the factors that have to be balanced when deciding what barriers to use in the animal facility.
<b>3</b>	Know relevant health and safety legislation and practices.	Describe how the health and safety of the animals and people is maintained.		

This assessment is based on the following scenario. Imagine you have been placed on a planning committee to represent the animal facility. The committee is in charge of organizing the building of a new animal facility that will house mice, rats and guinea pigs in an academic research organisation. The health status of the animals is important, but the researchers will need frequent access to the facility. For each task you need to consider the recommendations you would make to this committee explaining the reasons for your decisions. It will help if you consider as many options as you can. Use the syllabus (pages 69 and 71) to guide you.

### **Task 1 (Disease control LO 1 & 2 Pass & Merit)**

What are the potential health risks to the animals? You should give examples of potential pathogens, how they are spread and what can be done to limit the risk.

Explain how you can reduce the risk of parasitic disease by understanding its lifecycle. For example, many ticks require more than one species to complete their lifecycle. If one of the species is absent in the unit it won't be able to complete its lifecycle.

### **Task 2 (Housing and biosecurity barriers LO 1 Pass, Merit; Disease control LO 1 & 2 Pass & Merit)**

Explain, with examples, how maintaining high standards of animal husbandry can minimize disease risks. You need to consider disease in its widest context. Look at the syllabus to ensure you cover the key points. You will need to draw reference to the Codes of Practice.

### **Distinction criteria**

### **Task 4 (Housing and biosecurity barriers LO 1 Distinction; Disease control LO 1 & 2 Distinction)**

Your researchers need frequent access to the unit. How would you design this unit and the daily routines to protect the health status of the animals without unnecessary impact on the researchers?

You should consider:

- What are the main risks?
- What compromises do you need to make?
- What would you do in ideal conditions?
- What barriers will you need?
- How will the animals be housed?
- You need to explain your reasoning for all the points you make

Describe how the routines and barriers might differ if this was a unit supplying clean animals to other establishments.

### **Task 3 (Disease control LO 3 all criteria; Housing and barriers LO 2 all criteria)**

Identify examples of health and safety risks and describe how these are minimised.