# Knowledge assessment 3

**Assessment event 3 of 6**

## Criteria

### Unit code, name and release number

MSL974021 - Perform biological procedures (1)

### Qualification/Course code, name and release number

MSL50118 - Diploma of Laboratory Technology (1)

MSL40118 - Certificate IV in Laboratory Techniques (1)

\*\*Amend the qualification box before distributing to the student. The information here should only contain the qualification the student is enrolled in\*\*

## Student details

### Student number

### Student name

## Assessment Declaration

* This assessment is my original work and no part of it has been copied from any other source except where due acknowledgement is made.
* No part of this assessment has been written for me by any other person except where such collaboration has been authorised by the assessor concerned.
* I understand that plagiarism is the presentation of the work, idea or creation of another person as though it is my own. Plagiarism occurs when the origin of the material used is not appropriately cited. No part of this assessment is plagiarised.

### Student signature and Date

Version: *1.0*

Date created: 23/09/2019

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For queries, please contact:

Innovative Manufacturing, Robotics and Science SkillsPoint

Hamilton Campus

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This assessment can be found in the: [Learning Bank](https://share.tafensw.edu.au/share/access/searching.do?doc=%3Cxml%2F%3E&in=P7ac4831b-430a-4b8d-8b56-f7b32ed5b9cf&q=&type=standard&sort=rank&dr=AFTER)

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## Assessment instructions

Table 1 Assessment instructions

| Assessment details | Instructions |
| --- | --- |
| **Assessment overview** | The objective of this assessment is to assess your knowledge as would be required to understand the role of cellular biology and biochemistry when working within a microbiology laboratory. |
| **Assessment Event number** | 3 of 6 |
| **Instructions for this assessment** | This is a written assessment and it will be assessing you on your knowledge of the unit. This assessment is in 3 parts:  This assessment is in 3 parts:   1. Check and log samples 2. Workplace hazards 3. Assessment feedback |
| **Submission instructions** | On completion of this assessment, you are required to upload it or hand it to your trainer for marking.  It is important that you keep a copy of all electronic and hardcopy assessments submitted to TAFE and complete the assessment declaration when submitting the assessment. |
| **What do I need to do to achieve a satisfactory result?** | To achieve a satisfactory result for this assessment all questions must be answered correctly. |
| **What do I need to provide?** | Pens |
| **Due date/time allowed** | 1 hour |
| **Assessment feedback, review or appeals** | Appeals are addressed in accordance with Every Student’s Guide to Assessment. |

## Part 1: Check and log samples

You have received a set of ten samples and request forms. Your task is to:

1. Check each sample against its work request and confirm it is correct or incorrect in Table 1: Sample checklist, below.
2. Follow the standard operating procedure *M410: Log samples* to successfully complete the spreadsheet form *F400: Sample log*.
3. Answer the three questions below

**To complete this task, you’ve been provided with:**

* 10 samples
* 10 pathology request forms
* Standard operating procedure *M410: Log samples*
* Form *F400: Sample log*

**TABLE 1: Sample checklist**

Table 2 Checklist

|  |  |  |  |
| --- | --- | --- | --- |
| Sample / request form number | Correct (Y/N) | Sample / request form number | Correct (Y/N) |
| 729513A |  | 817462B |  |
| 961427A |  | 217461A |  |
| 746123C |  | 289527C |  |
| 679852A |  | 684789C |  |
| 123857A |  | 117678B |  |

Question 1a: Which samples would you batch together? Complete the table below for all of the samples.

Table 3 Batches a

|  |  |  |
| --- | --- | --- |
| Batch number | Analysis required | Sample IDs |
|  |  |  |
|  |  |  |
|  |  |  |

Question 1b: In the table below you need to schedule these samples so that you could run parallel work sequences and make the working day more efficient. In this table, name the batches you would run in parallel sequence 1a and 1b, or 2a and 2b and so on. Complete the table below for all of the samples.

Table 4 Batches b

|  |  |  |
| --- | --- | --- |
| Batch number | Analysis required | Sample IDs |
|  |  |  |
|  |  |  |
|  |  |  |

Question 2: What procedures (SOPs) would be required to safely and correctly analyse these samples (5 to 20 words)?

Question 3a: List the five different items of equipment that could be used to analyse these samples (5 to 15 words)?

Question 3b: List at least five different pieces of instrumentation that could be used to analyse these samples (5 to 15 words)?

Question 4: Considering the samples above, how would you minimise the generation of waste during sample preparation and analysis (15 to 40 words)?

## Part 2: Workplace hazards

Complete the workplace hazards table below, including the control measures that protect people and the environment.

You must list at least two hazards for each of the following:

* Samples
* Sample and reagent preparation methods
* Reagents
* Equipment

Write your name, sign and date the section below the table.

**Hazards and controls**

Table 5 Hazards and controls

|  |  |  |
| --- | --- | --- |
| Procedure / Item | Hazards | Control measures |
| Samples |  |  |
| Sample and reagent preparation methods |  |  |
| Reagents |  |  |
| Equipment |  |  |

|  |  |
| --- | --- |
| Technician name |  |
| Signature |  |
| Date |  |

## Part 3: Assessment Feedback

*NOTE: This section* ***must*** *have the assessor signature and student signature to complete the feedback.*

### Assessment outcome

Satisfactory

Unsatisfactory

### Assessor Feedback

Was the assessment event successfully completed?

If no, was the resubmission/re-assessment successfully completed?

Was reasonable adjustment in place for this assessment event?  
*If yes, ensure it is detailed on the assessment document.*

Comments:

### Assessor name, signature and date:

### Student acknowledgement of assessment outcome

Would you like to make any comments about this assessment?

### Student name, signature and date

***NOTE: Make sure you have written your name at the bottom of each page of your submission before attaching the cover sheet and submitting to your assessor for marking.***