# Topic Test 6 – Interpreting data

## Criteria

### Unit code, name and release number

MSL924003 - Process and interpret data Release 1

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

MSL60118 Advanced Diploma of Laboratory Operations Release 1

MSL50118 Diploma of Laboratory Technology Release 1

MSL40118 Certificate IV in Laboratory Operations Release 1

MSL30118 Certificate III in Laboratory Skills Release 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 your 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: *1 November 2018*

Date modified: *23/04/2019*

For queries, please contact:

*Innovative Manufacturing, Robotics and Science Skills Point*

*TAFE 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 in interpreting data from a range of sources. |
| **Assessment Event number** | 6 of 7 |
| **Instructions for this assessment** | This is a written assessment and it will be assessing you on your knowledge of the unit.  This assessment has 4 questions. It is open book and will be conducted as a supervised test.  Assessment feedback is provided at the end of this document. |
| **Submission instructions** | This assessment will be undertaken in the presence of a teacher or assessor. |
| **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?** | You should bring a pen/s, calculator and your Student Workbook. |
| **Due date/time allowed** | You will have 30 minutes to complete this assessment. |
| **Assessment feedback, review or appeals** | Your assessor will provided feedback as set out in the Unit Assessment Guide. Appeals are addressed in accordance with Every Students Guide to Assessment. |

## Short answer

1. Results of tests are often presented in tables and then the interpretation of the results given in words. Comments may describe trends or make comparisons between samples.

**Table 1 - Potassium bromide dissolved at various temperatures**

Table 2 Potassium bromide dissolved at various temperatures

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Temp (°C) | 0 | 10 | 20 | 30 | 40 | 50 |
| **KBr (g)** | 52 | 60 | 64 | 73 | 76 | 81 |

**Task:** Describe the trend shown in table 1 above.

Answer correct  Yes  No

1. A collaborative study is a study to determine the performance characteristics of a method of analysis, rather than the performance of laboratories or analysts. The results of one such analysis are presented in Table 2.

**Table 2 - A collaborative study of the analysis of lead in dried cabbage**

Table 3 A collaborative study of the analysis of lead in dried cabbage

|  |  |
| --- | --- |
| **Result (mg/kg)** | **Number of laboratories** |
| 0.10 | 1 |
| 0.14 | 1 |
| 0.18 | 2 |
| 0.22 | 2 |
| 0.26 | 2 |
| 0.34 | 3 |
| 0.46 | 1 |
| 0.50 | 2 |
| 0.54 | 2 |

How many laboratories’ results were within the acceptable range of 0.23 - 0.41 mg/kg?

Answer correct  Yes  No

1. Refer to Figure 1 below which shows causes of injury due to drug reaction over the course of a year.

**Figure 1 – Causes of injury due to drug reaction**

**Task:** Examine Figure 1 to identify the appropriate answers to the following questions

* 1. Which was the greatest cause of injury?

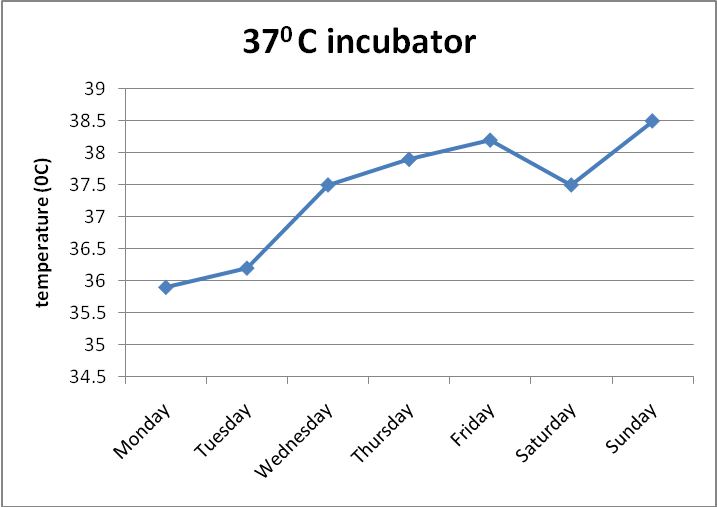
Answer correct  Yes  No

* 1. How many injuries were due to an inappropriate drug being given to the patient?

Answer correct  Yes  No

1. Refer to the graph for the temperature changes in the 37°C incubator and answer the following questions.

**Figure 2 – Temperature changes in incubator**



1. On what day was the temperature 37.5°C?

Answer correct  Yes  No

1. What is the trend of the temperature?

Answer correct  Yes  No

## 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.***