

Lifelong Learning

Assessment Manual

Title: Quantitative Problem Solving
M2N09

Award Type: Minor

Award Level:2

Version: 1.0

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1. Assessment Overview

This is a QQI Level 2 minor award. At QQI Level 2, a student is graded as Successful or Referred:

Successful means that all the learning outcomes from the Component Specification have been demonstrated to an appropriate standard in the Students Portfolio of Assessment.

Referred means that the portfolio of assessment needs further work by the student before they can demonstrate the standard and achieve certification from QQI. When a student has not achieved the minimum standards for an award the grade is recorded as referred.

This minor award contains the following assessment technique:
Portfolio Collection of Work (100%)

This minor award is assessed by a portfolio or collection of work. This is a collection of work produced by the learner over a period of time that demonstrates achievement of a range of learning outcomes.

All learning outcomes must be achieved to get a Successful grade.

Learners will be given an assessment completion date by their course tutor. **If learners do not complete their assessment by this date, they will be given a referred result.**

1.1 Assessment Criteria for Tutors

Tutor best practice is to ensure that all learners have the opportunity to demonstrate their learning, carry out each assessment and present it to the best of their ability.

Each module/course will have an assessment framework and a range of assessments and tasks for learners to complete.

The assessment brief clearly communicates to learners all assessments and learning tasks that need to be successfully completed to obtain the respective QQI qualification.

The assessment brief is structured to support learners to engage with and complete all module/course learning outcomes.

1.2 Assessment Brief

The assessment brief must be clearly laid out for the learner.

The assessment brief and agreed deadline must be communicated to the learner by the course tutor.

Learning outcomes must be mapped in the assessment.

The marking allocation for assessment must be clearly stated on the assessment brief.

1.3 Learner Declaration

Learners must ensure that all work presented is learner's own work. The learner will sign the learner declaration section. Signing this section

means that learners confirm the coursework and assessment submitted is their own.

When all assessment work has been submitted the course tutor must ensure each learner signs the learner declaration section in the course assessment brief.

1.4 Assessment Overview

The assessment overview section in the assessment brief must be signed by **both the course tutor and the learner**.

The date the assessment brief was given to learners must be recorded.

The date all assessments were returned to the course tutor must be recorded.

This recording process ensures that the assessment brief has been distributed to the learner by the tutor and all assessment task elements have been submitted by the learner.

1.5 Tutor Marking Review

Some courses may have a course assessor who is not the course tutor.

The course assessor must be clearly identified in the assessment grading and recording process.

In the tutor marking review section of the assessment brief tutors/assessors must confirm that they have graded all assessment task elements and course assessments.

Tutors/assessors must clearly document if the learner has or has not completed all assessment tasks successfully.

2. Grading and Feedback

2.1 Grading

Assessors must complete all elements of the course marking sheet to award the learner their course grade.

Assessors will grade using the specified grading bands and outline the following:

The Assessment Criteria – Outline the learning outcome(s) the assessment is being graded against.

Allocation of Marks – Assessors will tick if the learning outcome has been achieved through successful completion of the relative assessment.

Evidence of Assessment – This must include the Assessment Title and Number. If there is an affiliated worksheet or handout allocated to the assessment the worksheet number must also be clearly outlined.

Grade Awarded – Assessors must specify the grade awarded and sign to validate the grade given to the learner. Date of grade issue records the date the grade was awarded by the course tutor.

2.2 Learner Feedback

Assessors must record the mode of feedback and date of feedback issue to the learner.

Overall course feedback to learners should contain the grade awarded to the learner as well as specific assessment related portfolio of work /skills demonstration feedback.

Feedback should be communicated in line with the learner's own preferred communication method and in line with the SJOGCS13 Policy on using a Total Communication Approach.

3. Internal and External Verification

The course assessor must follow the process of preparing for internal and external verification.

All learner portfolios and assessment must be presented by the course assessor for internal/external verification.

The assessor is required to complete the course assessor section of the Lifelong Learning Internal Verification Submission Checklist. (See Appendix 1).

The assessor must present each learner portfolio as follows:

Portfolios

1. a) Module Name
 b) Module Code
 c) Learner Name
2. Completed assessment brief signed by the learner and tutor/assessor.
3. Completed marking sheet to include grading and feedback signed by module(s)/course assessor.
4. Evidence of learner assessment work – Clearly signposted and audio-visual work stored in the appropriate online location.

4. Learning Outcomes Mapping

Award Title:	Quantitative Problem Solving
Award Type:	Minor
Framework Level:	2
Award Code:	M2N09
Credit Value:	5
Assessment Technique:	Portfolio of Work

Please note below all learning outcomes that must be achieved and evidenced for a learner to achieve a successful grade.

Module Learning Outcome	Assessment Technique(s) / Tasks
(QS1) Identify quantitative elements in a range of everyday circumstances, e.g. daily budget, planning an outing – including distances, dates, times and costs	Assessment 1,2
(QS2) Be aware of approaches that can be used to solve quantitative problems, e.g. estimation, modelling and flow charts	Assessment 3
(QS3) Use mathematical terms and symbols to represent problems	Assessment 4
(QS4) Find a solution to a real-life quantitative problem	Assessment 5
(QS5) Evaluate the solution obtained for the problem	Assessment 6

5. Staff Supporting Assessment Agreement

(Only to be completed by staff who are supporting learners availing of learning support to complete assessment)

Supporting Staff Agreement I will:	Initial
Agree a time with the learner to provide learning support in order to assist the learner's independent completion of course and assessment related work. To add this learning support time to our weekly timetable.	
Support the learner to ensure they have signed and dated their assessment brief	
Support the learner to record their assessment submission date, deadline and encourage contact with tutor if required	
Encourage the learner to keep work safe and secure at all times	
Support the learner to complete student feedback and course evaluation	
Offer support if needed to access and engage with LEAP	
Facilitate independent learning activities	
Encourage learning opportunities and skills use from course where appropriate	

5.1 Assessment Brief – Quantitative Problem Solving

Learner Name:	
Module:	Quantitative Problem Solving
Module Code:	M2N09
Level:	2
Technique:	Portfolio of Work
Grading:	S = All assessments are completed satisfactorily R = Assessment incomplete or not completed satisfactorily
Assessment Start Date:	
Assessment Submission Deadline:	

5.2 Assessment Brief

Programme Module Title:	General Learning
Component Title and Code:	Quantitative Problem Solving M2N09
Level	2
Assessment Technique	Portfolio of Work
Weighting	100%
Agreed Deadline	



There are **6 assessments** for you to complete as part of your portfolio of work for your course, Quantitative Problem Solving.

You can present your work in the way that works best for you, like using photos, making a video, and using worksheets.

You must complete all 6 assessments.



1 Title: Identify and plan a suitable day trip (QS1)

Guidelines

- Capture picture/video evidence of your work. Document activities and reflections using the Book Creator app.

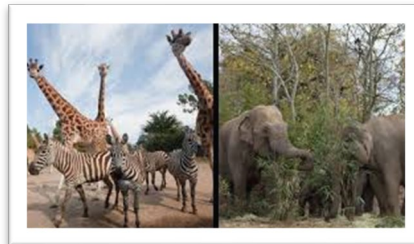
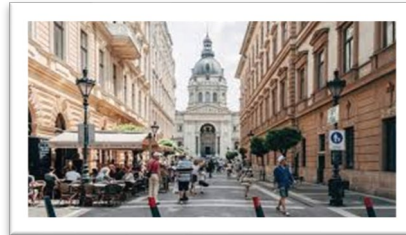
Criteria

In completing this piece of assessment, the learner will be able to:

- Identify an appropriate day trip location. (e.g. Zoo, bowling, National Park)

Learning Outcome:

- To recognise a suitable day trip
- Ask any questions



2 Title: Using numbers in everyday situations (QS1)

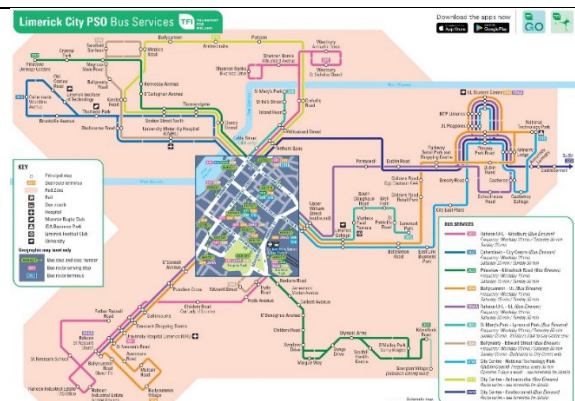
Guidelines

- Capture picture/video evidence of your work. Document activities and reflections using the Book Creator app.

Criteria

In completing this piece of assessment, the learner will be able to:

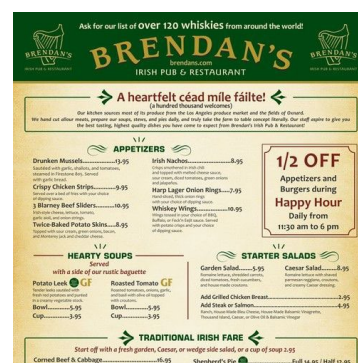
- Identify and locate two prices on a list



- Identify the price of items on a menu
- Identify the opening and closing times of the day trip destination
- Identify the correct time on a travel timetable or another appropriate timetable
- Identify a date in a calendar for the trip
- Identify the day trip location on a map and for learners to be able to work out simple distances on the map

Learning Outcome:

- To familiarise themselves with frequently used mathematical terms and understand simple addition.
- Ask Questions



3 Title: Using estimation and charts (QS2)

Guidelines



- Capture picture/video evidence of your work. Document activities and reflections using the Book Creator app.

Criteria

In completing this piece of assessment, the learner will be able to:

- Arrange the day trip details into the correct sequence of events using a flowchart, timetable etc.



<ul style="list-style-type: none"> Estimate the cost of the items you need to buy during the trip for example, food and drinks <p>Learning Outcome:</p> <ul style="list-style-type: none"> To understand how to estimate value. How to place items in a timetable /chart. Ask questions 	
<p>4 Title: Using math symbols and terms. (QS3)</p> <p>Guidelines</p> <ul style="list-style-type: none"> Capture picture/video evidence of your work. Document activities and reflections using the Book Creator app. <p>Criteria</p> <p>In completing this piece of assessment, the learner will be able to:</p> <ul style="list-style-type: none"> Use a range of mathematical terms and symbols to represent problems e.g. addition + equals = symbols Identify words such as adding, plus, equals <p>Learning Outcome:</p> <ul style="list-style-type: none"> To use number in a variety of situations 	 
<p>5Title: Simple number problems (QS4)</p> <p>Guidelines</p>	

- Capture picture/video evidence of your work. Document activities and reflections using the Book Creator app.

Criteria

In completing this piece of assessment, the learner will be able to:

- Identify and solve simple number related problem e.g. budget or time constraints
- Find a quantitative solution for a real life problem e.g. buying tickets for goods or looking at times on timetables

Learning Outcome

- Identify simple number related problem use mathematical symbols to solve problem e.g. to total the costs for the trip
- Ask questions



My Account
About Us
New
Buy
Contact Us

Home
Fares & Tickets

Schedules & Service Updates

Fares & Station Information

Find Train Times and Buy Tickets

From: To: Class:

Outbound Date:
Inbound Date:

Outbound Time:
Inbound Time:

Subsequent Journey

From: To: Class:

Outbound Date: Inbound Date:

Outbound Time: Inbound Time:

Time	Day	From	To	Duration	Service	Order	Price	Notes
06:15	06:28	0	0:23	Schurken	01	01		
07:15	07:39	0	0:24	Schurken	02	02		
08:15	08:39	0	0:24	Schurken	03	03		
09:15	09:39	0	0:24	Schurken	04	04		
10:15	10:39	0	0:23	Schurken	05	05		
11:15	11:39	0	0:23	Schurken	06	06		
12:15	12:39	0	0:23	Schurken	07	07		
13:15	13:39	0	0:23	Schurken	08	08		
14:15	14:39	0	0:23	Schurken	09	09		
15:15	15:39	0	0:23	Schurken	10	10		
16:15	16:39	0	0:23	Schurken	11	11		
17:15	17:39	0	0:23	Schurken	12	12		
18:15	18:39	0	0:24	Schurken	13	13		
19:15	19:39	0	0:23	Schurken	14	14		
20:15	20:39	0	0:23	Schurken	15	15		
21:15	21:39	0	0:23	Schurken	16	16		

6 Title: Review (QS5)

Guidelines

- Capture picture/video evidence of your work. Document activities and reflections using the Book Creator app.

Criteria

In completing this piece of assessment, the learner will be able to:

Discuss how they evaluated the solution e.g. what time train to get /



<p>what costs they could afford within a given budget.</p> <p>Learning Outcome:</p> <ul style="list-style-type: none"> • Identify the results of an evaluation review. • Ask questions 	
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Learner Declaration (Learner to complete this section)

<p>I confirm that all work in my portfolio has been completed by me.</p>	<p>Learner Signature:</p> <hr/>
	<p>Date:</p> <hr/>

Assessment Overview (Both learner and course tutor complete this section)
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<p>Date the assessment brief was given (insert date below)</p> <hr/>	<p>Learner Signature:</p> <hr/>
<p>Date the assessment was submitted by learner (insert date below)</p> <hr/>	<p>Date / /</p> <p>Course Tutor Signature:</p> <hr/>
	<p>Date / /</p>

Tutor Marking Review (Course tutor to complete this section)	
<p>The tutor will deem the work successful when all assessments have been completed correctly and independently.</p>	<p>I can certify that < Insert Learner's Name> has / has not completed ALL elements of the assessment tasks correctly and independently.</p> <p>Course Tutor Signature: < Insert Tutor Signature></p> <p>Date / /</p>

6. Marking Sheet

Learner Name:		Date:		Course Code:	M2N09
Course Name:	Quantitative Problem Solving		Level:	QQI Level 2	

Portfolio /Collection of Work – 100%
Grading Bands

Successful	Referred
Successful means that the learner has:	Referred means that the learner has:

Reached the required standard as outlined by the assessment criteria in the component specification.	Not achieved the minimum standards required as outlined by the assessment criteria in the component specification.
Provided sufficient evidence which has relevance and clarity.	Portfolio/Collection of work requires further work by the learner before they can demonstrate the required standard outlined in the assessment criteria in the component specification.

Assessment Criteria	Allocation of Marks	Evidence of Assessment
Learning Outcomes Demonstration	Tick if achieved	Assessment Workbook Title and Number
		Quantitative Problem Solving Assessment 1
		Quantitative Problem Solving Assessment 2
		Quantitative Problem Solving Assessment 2
		Quantitative Problem Solving Assessment 3
		Quantitative Problem Solving Assessment 4
		Quantitative Problem Solving Assessment 5

Grade Awarded	Tick as appropriate	Successful <input type="checkbox"/> Referred <input type="checkbox"/>
Grade provided by (Tutor/Assessor Signature)		Date of grade issue: / /
Learner Feedback		
Mode of feedback provided to learner:	Tick as appropriate Video <input type="checkbox"/> Text <input type="checkbox"/> LEAP <input type="checkbox"/> Audio <input type="checkbox"/> Visual <input type="checkbox"/>	
Learner Feedback provided by (Tutor/Assessor Signature)	Date of feedback issue: / /	

Appendix 1: Submission Checklist for Course Assessor and Internal Verifier

Information Needed	Details	Assessor check	Internal Verifier check
Assessor Responsibility			
Name of component(s) and component codes being assessed.			
Learner Name			
Date of Assessment			
Is the portfolio corrected?			
Is DOB and PPS sent to QQI coordinator/included if first time being assessed?			
Is there evidence of all LOs included and are they clearly marked?			
Is audio visual evidence stored in the appropriate online location?			
Are all elements of the marking sheet completed i.e. all LOs ticked and proper code included?			
Has Learner and Assessor signed all relevant sections the assessment brief?			
Is assessor feedback included in portfolio?			

Internal Verification Responsibility			
Is portfolio clearly labelled and in the appropriate folder?			
Has label been printed and attached with Learner Name, Title of Component and code on Label?			
Are audio visual elements of portfolio stored in the appropriate online location?			
Has the tutor given the I.V. the correct Assessment Brief and Marking Sheet?			
Is the record of Award and component in the results pack?			
Is the I.V. report completed and included in the results pack?			
Is the Assessment Brief and Marking sheet for each component in the results pack?			

Review Record

Date Portfolios were handed to I.V: Date / /

By Assessor (Name): <Insert IV Assessor's Name Here>

Date Portfolio handed in for EA submission: Date / /

By I.V. (Name): <Insert IV Assessor's Name Here>