



# T Level Technical Qualification in Science

Occupational specialism assessment (OSA)

## Laboratory Sciences

Assignment 2 - Part B

Practical assessment evidence requirements

## T Level Technical Qualification in Science Occupational specialism assessment

# Laboratory Science

## Practical assessment evidence requirements

Assignment 2

Part B

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## Introduction

TQ pathway:	Science
Occupational specialism:	Laboratory Sciences
Assignment:	Assignment 2 part B

The following table lists the evidence that providers must ensure is collected for each student completing assignment 2 part B in the Laboratory Sciences occupational specialism of the TQ in Science. Evidence is split into the following types:

- student produced evidence
- audio visual recordings
- photographic evidence
- provider or tutor commentary

This form should be used as a checklist and signed off by the tutor and internal quality assurer before being returned to NCFE with the evidence for each student.

## Task 1(a)

Task 1(a) Evidence requirement	Detailed commentary, where relevant
Student produced evidence	
Signed student declaration of authenticity.	Completed declaration of authenticity.
Audio visual recordings	
Short audio visual recording of the Benedict's reaction process.	Covering each step, to be labelled with the student and provider name. Student should carefully measure out a consistent amount of Benedict's solution and add it to a consistent amount of sample for each known concentration, as well as their unknown concentration, allowing for the production of the calibration curve and then the plotting of the unknown concentration against the curve.
Photographic evidence	
Photograph of lab set up. Photograph of accuracy of recorded measurements check.	Showing equipment and set up prepared by the student. The student should set up their equipment in a logical manner, with clear labelling of any solutions and a logical order to them (such as, reagents/solutions physically set out in the order they are required such as from lowest concentration to highest) to facilitate completion. Lab set up should be kept tidy to ensure good order to equipment. For measurements check student should be at eyelevel with the meniscus of the volume measured out.
Provider or tutor commentary	
Tutor marks and any relevant commentary. Completed tutor observation checklist.	Completed on student's work.

## Task 1(b)

Task 1(b) Evidence requirement	Detailed commentary, where relevant
Student produced evidence	
Student's recorded data presented in a suitable format.	The student should produce a calibration curve, plotting concentrations on the X axis, with colorimeter readings on the Y axis. Using this graph, the student should then draw a straight line from the colorimeter reading for the sample across to where it meets the curve, and a straight line down from this point to determine the concentration in the sample.
Audio visual recordings	
N/A	
Photographic evidence	
N/A	
Provider or tutor commentary	
Tutor marks and any relevant commentary. Completed tutor observation checklist.	Completed on student's work.

Tutor and provider sign off	
Tutor confirmation I confirm that all evidence is a true reflection of the student's work for this assignment.	
Tutor name:	Date:
Internal quality assurer confirmation I confirm that I agree with the tutor confirmation and have carried out a suitable check to satisfy that this is the case.	
Internal quality assurer name:	Date:

## Document information

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## Change History Record

Version	Description of change	Approval	Date of Issue
v1.0	Post approval, updated for publication.		January 2021
v1.1	NCFE rebrand		September 2021