



Occupational specialism assessment (OSA)

Assisting with Healthcare Science

Assignment 3

Assignment brief

v1.1: Additional sample material 21 November 2023 603/7083/X



T Level Technical Qualification in Healthcare Science Occupational specialism assessment (OSA)

Assisting with Healthcare Science

Assignment brief

Assignment 3

Contents

Task 1: microscopy – Giemsa stain	 	3
Task 2: specimen analysis – blood	 	4
Change History Record		5

Task 1: microscopy – Giemsa stain

Brief

Location: haematology laboratory

You are supporting a biomedical scientist (BMS) with analysing a patient's whole blood sample which has arrived from one of the wards. You need to analyse the percentage, volume and number of blood cells from the sample and relay this information to the biomedical scientist.

Task

- 1(a) complete preparation to carry out a Giemsa stain method on blood (including the work area and self)
- 1(b) produce microscope slides with a blood film of the sample blood
- 1(c) complete a stain method on the blood slides using Giemsa stain and accurately record the percentage of cell types within the sample. A control slide of whole blood has been provided to you for you to refer to
- 1(d) dispose of materials and samples appropriately, and clean equipment and work area

(40 marks)

Student instructions

Following the quality control (QC) confirmation of your Giemsa stain using the microscope as part of task 1(c), you must notify the biomedical scientist and explain how you have completed the control Giemsa stain prior to commencing task 1(d).

Conditions of the assessment

- task 1 must be completed in supervised conditions
- you will only have access to materials permitted by your tutor and available in the designated assessment area
- you will have a maximum of 1 hour to complete this task

T Level Technical Qualification in Healthcare Science (603/7083/X), OSA Assisting with Healthcare Science, Assignment 3 Assignment brief

Task 2: specimen analysis – blood

Brief

Location: haematology laboratory

You are given a patient's blood sample. The biomedical scientist asks you to analyse the patient's blood by performing a cell count on **only** the white blood cells (WBCs) in this sample.

Task

The biomedical scientist has asked you to confirm the number of white blood cells in the sample.

2(a) prepare the work area and self for carrying out cell counting of the WBCs

2(b) separate the blood sample into its components using centrifugation and aliquot a chosen volume of WBCs from the sample

2(c) using a haemocytometer, count the WBCs within a selected volume of blood:

- follow the standard operating procedure (SOP)
- confirm the specimen is ready for analysis
- · discuss the process you went through with the biomedical scientist

2(d) carry out post-analysis activities, including:

- sample storage
- equipment cleaning
- waste disposal
- decontamination of work area

(54 marks)

Student instructions

You must log the samples and results into the laboratory information management system (LIMS).

Conditions of the assessment

- task 2 must be completed in supervised conditions
- you will only have access to materials permitted by your tutor and available in the designated assessment area
- you will have a maximum of 1 hour 30 minutes to complete this task

T Level Technical Qualification in Healthcare Science (603/7083/X), OSA Assisting with Healthcare Science, Assignment 3 Assignment brief

Document information

Copyright in this document belongs to, and is used under licence from, the Institute for Apprenticeships and Technical Education, © 2023.

'T-LEVELS' is a registered trade mark of the Department for Education.

'T Level' is a registered trade mark of the Institute for Apprenticeships and Technical Education.

The T Level Technical Qualification is a qualification approved and managed by the Institute for Apprenticeships and Technical Education. NCFE is currently authorised by the Institute to develop and deliver the T Level Technical Qualification in Healthcare Science.

'Institute for Apprenticeships & Technical Education' and logo are registered trade marks of the Institute for Apprenticeships and Technical Education.

Owner: Head of Assessment Design

Change History Record

Version	Description of change	Approval	Date of issue
v1.0	Additional sample material		01 September 2023
v1.1	Sample added as a watermark	November 2023	21 November 2023