Unit 10: Introduction to Transfusion and Transplantation

Level:	**2**
Unit type:	**Optional (Life Sciences)**
Credit value:	**2**
Guided learning hours:	**11**

Unit summary

This unit aims to give learners knowledge and understanding of blood groups, the purpose of typing and cross matching prior to transfusion, and of transfusion and transplantation science. Learners will have the opportunity to reflect on their own role and those of others in NHS transfusion and transplantation services.

Unit assessment requirements

Assessment tasks and activities must enable learners to produce valid, sufficient, authentic and appropriate evidence that relates directly to the learning outcomes and assessment criteria of the unit. Suitable forms of evidence for this unit include:

- written tasks such as reports, articles for journals, newsletters, leaflets, posters
- workbooks, work logbooks or learner diaries
- written or oral presentations
- projects
- oral question and answer

Observation records should not be used as the primary evidence of achievement for this unit, but can be used to supplement the more appropriate forms of evidence listed above or to provide sector contextualisation or evidence of how the learner has applied knowledge within their job role.

When devising the assessment activities, centres need to look closely at the verb used in each assessment criterion to ensure that learners can provide evidence with sufficient breadth and depth to meet the requirements. Centres need to produce assessment briefs for learners with clear instructions of what they are required to do.

Additional information

For AC4.1, the common terms used in transfusion and transplantation science include:

- Anaemia
- Sickle-Cell Disease
- Haemophilia
- Blood Bank
- Cyanosis
- Jaundice
- Whole Blood
- Blood Component
- Antibody/Antigen.

Learning outcomes and assessment criteria

To pass this unit, learners need to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements that the learner is expected to meet to achieve the learning outcomes and the unit.

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
1	Understand the function and components of blood	1.1	State the main functions of blood			
		1.2	Identify the components of blood in a normal adult			
		1.3	Describe how blood components are manufactured			
		1.4	Identify common diseases that result in incorrect functioning of blood			
2	Understand the process for typing and cross-matching blood for transfusion	2.1	Identify the common blood types			
		2.2	Describe the process of red cell typing antibody screening and cross-matching			
		2.3	State the potential risks during the process of typing, screening and cross-matching			
		2.4	Describe the safeguards built into the system for typing, screening, and cross-matching to minimise risk			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
3	Understand the purpose and risks of transfusion	3.1	Define the term transfusion			
		3.2	State the purpose and potential risks of transfusions			
		3.3	Explain the role of NHS Blood and Transplant in supporting transfusions			
		3.4	Identify common ethical issues associated with blood transfusions			
		3.5	Explain the implications of common ethical issues associated with blood transfusions			
		3.6	State the meaning of haemo-vigilance and its role in monitoring transfusions and reporting errors			
4	Understand the meaning of common terms used in transfusion and transplantation science	4.1	Explain the meaning of common terms used in transfusion and transplantation science			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
5	Be able to reflect on own and others' roles with respect to NHS transfusion and transplant services	5.1	Explain the process of reflection			
		5.2	Describe the roles of fellow team members in transfusion and transplant services			
		5.3	Describe how their own team supports NHS transfusion and transplant services			

Learner name: _____ Date: _____

Learner signature: _____ Date: _____

Assessor signature: _____ Date: _____

Internal verifier signature: _____ Date: _____
(*if sampled*)