

CARRY OUT PARASITOLOGICAL TECHNIQUES

UNIT CODE: APB/OS/AB/CR/09/6/A

UNIT DESCRIPTION

This unit specifies the competencies required to carry out parasitological techniques. It involves carrying out protozoology and carrying out helminthology.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace function (to be stated in active)	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements (to be stated in passive voice) <i>Bold and italicized terms are elaborated in the Range</i>
1 Carry out protozoology	1.1 <i>Classification of protozoa</i> is carried as per taxonomic principles 1.2 Life cycles of protozoans and pathological effects is determined as per parasitological procedures 1.3 Specimen are collected and observed under the microscope as per laboratory procedures. 1.4 Laboratory diagnosis of <i>protozoan diseases</i> is carried out as per laboratory procedures 1.5 Prevention and control measures of protozoan are carried out as per parasitological procedures
2 Carry out helminthology	2.1 <i>Classification of helminthes</i> is carried as per taxonomic principles 2.2 Life cycles of <i>helminthes</i> and pathological effects is determined as per parasitological procedures 2.3 Specimen are collected and observed as per laboratory procedures. 2.4 Laboratory diagnosis of helminthes is carried out as per laboratory procedures 2.5 Prevention and control measures are carried out as per parasitological procedures

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

VARIABLE	RANGE
Classification of protozoa include but are not limited to:	<ul style="list-style-type: none">• Ciliate• Flagellates/mastigophore• Sarcodina• Sporozoa
Protozoan diseases include but are not limited to:	<ul style="list-style-type: none">• Coccidiosis• Trypanosomiasis• Leishmaniasis• Malaria• <i>Toxoplasma gondii</i>• <i>Trichomonas vaginalis</i>
Classification of helminthes include but are not limited to:	<ul style="list-style-type: none">• Cestodes• Trematodes• Nematodes
Helminthes include but are not limited to:	<ul style="list-style-type: none">• <i>Ascaris lumbricoides</i>• Hook worms• <i>Wuchereria bancrofti</i>• <i>Taenia spp</i>• <i>Fasciola hepatica</i>• <i>Schistosoma spp</i>

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skill

- Communication
- Analytical
- Critical thinking
- Problem solving
- First aid
- Innovation

- Creativity
- Observation

Required Knowledge

The individual needs to demonstrate knowledge of:

- Microscopy
- Cytological techniques
- Histological techniques
- Specimen collection methods
- Storage of specimens
- Protozoan diseases
- Taxonomy

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1 Critical Aspects of Competency	Assessment requires evidence that the candidate: <ul style="list-style-type: none"> 1.1 Carried out classification of protozoa and helminthes 1.2 Determined life cycles of protozoans, helminthes and pathological effects 1.3 Collected and observed specimens under the microscope 1.4 Carried out laboratory diagnosis of protozoan diseases and helminthes 1.5 Carried out prevention and control measures of protozoan diseases
2 Resource Implications	The following resources should be provided: <ul style="list-style-type: none"> 2.1 Well-equipped biology laboratory 2.2 laboratory procedures manual 2.3 Laboratory reagents and chemicals 2.4 PPEs
3 Methods of Assessment	Competency in this unit may be assessed through: <ul style="list-style-type: none"> 3.1 Oral 3.2 Written 3.3 Observation 3.4 Third party 3.5 Practical test

4 Context of Assessment	Competency may be assessed on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment.
5 Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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