



Australian Government

Assessment Requirements for MSL974034

Perform biological procedures

Release: 1

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Modification History

Release 1. Supersedes and equivalent to MSL974021 Perform biological procedures. Element 3 removed as it was essentially knowledge. Minor changes to Performance Criteria. Clarification around allowing choice of multi-step staining method in Performance Evidence. Addition of test procedures and other minor changes to Knowledge Evidence.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- safely and accurately performed 3 different multistep biological procedures, using at least 2 different techniques from the following list:
 - multistep staining, either:
 - haematological
 - histological
 - microbiological
 - preparation and examination of samples to demonstrate mitosis microscopically
 - preparation and enumeration of microscopic samples
 - colorimetry
 - spectrophotometry
 - chromatography
 - electrophoresis
 - electrochemistry
 - multistep molecular technique
 - multistep immunological technique.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- biological principles and concepts underpinning tests and procedures associated with job role, including:
- basic classification and taxonomy of organisms including prokaryotes and eukaryotes, bacteria, viruses, fungi, plants, animals, parasites and prions
- basic structure and function of a plant and/or animal cell and the respective organelles
- cell membrane activity, including diffusion (passive, facilitated and active), osmosis, tonicity
- phases of the cell cycle including phases of mitosis

- mendelian genetics including inheritance, meiosis, karyotypes, dominant, recessive, codominant and sex-linked traits, genotypes, phenotypes
- basic structure and function of organic molecules including carbohydrates, lipids,
- basic role of biologically significant ions, including calcium, iron, magnesium, sodium, potassium, chloride and phosphate
- purpose of procedures implemented (why they are used and what they demonstrate)
- importance and appropriate use of controls and certified reference materials
- legal, ethical and work health and safety (WHS) requirements specific to the work task.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipped with appropriate laboratory equipment, safety equipment, reagents, materials and biological samples
- workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

MSL Laboratory Operations Companion Volume Implementation Guide is available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5c63a03b-4a6b-4ae5-9560-1e3c5f462baa>