



Australian Government

Assessment Requirements for MSL975064

Perform chemical pathology tests

Release: 1

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Modification History

Release 1. Supersedes and equivalent to MSL975037 Perform chemical pathology tests. Element 3 integrated into Element 2. Minor changes to Performance Criteria and Knowledge Evidence with removal of terminology item (covered in other aspects of 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 performed at least 4 different tests or procedures associated with the detection and monitoring of tissue and bodily fluid responses to normal physiological processes and/or disease through the identification and quantification of chemical or biochemical components, including:
 - identifying and measuring chemical substances such as biologically significant ions, proteins or metabolites that are associated with organ dysfunction or indicators of success or failure of treatment

enzymatic assay testing for biological activity indicative of organ or tissue damage and at least 1 of the following:

- immunoassay such as testing for autoimmunity, drugs of abuse, therapeutic drug monitoring, toxin or current/prior exposure to infective agents (antigens and/or antibodies)
- testing to quantify immunological protein, such as immunoglobulin or complement protein.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- medical terminology relevant to normal and abnormal chemical pathology
- workplace procedures for selection and use of testing procedures in terms of the supposed or defined clinical problem
- handling of unstable or hazardous chemicals or samples and/or the fragile/labile nature of biological material
- processing and storage requirements for chemical pathology samples to ensure sample integrity prior and post testing
- principle and purpose of test methods implemented (why they are used and what they demonstrate)
- significance of quantifying routine biological ions, proteins and hormones

- significance of the detection and measurement of drugs, toxins, enzyme activity
- immunological concepts including:
 - the role of antigens, antibodies and proteins in disease diagnosis
 - antibody and protein structure and function
 - characteristics of polyclonal versus monoclonal antibodies
 - principle of immunological assays including ELISA and indirect immunofluorescence
- interpretation of results and identification of results requiring urgent reporting due to critical clinical significance
- selection and use of quality control and quality assurance processes for the issuance of meaningful results
- sources of pre- and post-analytical errors and corrective actions
- management of workflow for effective and efficient use of resources
- technological advances that include automation
- legal, ethical and work health and safety (WHS) requirements specific to the work task including traceability, confidentiality and security requirements of all clinical information, and laboratory data and records.
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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, equipment and resources, including:

- a standard chemical pathology laboratory with relevant equipment, samples and reagents, laboratory information system, databases and record/filing system
- workplace procedures, test methods and equipment manuals.

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>