



Australian Government

Assessment Requirements for MSL975049

Apply routine electrometric techniques

Release: 1

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Modification History

Release	Comments
Release 1	This version was released in <i>MSL Laboratory Operations Training Package Release 2.0</i>. Supersedes and equivalent to MSL975021 Apply routine electrometric techniques. Conditional/optional prerequisite removed – code retained. Changes to elements and performance criteria. Foundation skills information added. Range of conditions removed. Assessment requirements amended.

Performance Evidence

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

- applied routine electrometric techniques to at least 3 different samples to obtain valid and reliable data
- effectively prepared samples using at least 3 different processes.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- redox and electrical principles and concepts related to electrometric instrumentation operation and testing
- use of various electrometric techniques for qualitative and quantitative analysis
- handling of unstable or hazardous chemicals and samples, including the fragile and labile nature of biological materials
- routine electrometric techniques
- typical tests
- typical sample preparation
- calculation steps to give results in appropriate accuracy, precision, uncertainty and units
- workplace and legal traceability requirements
- basic equipment maintenance procedures
- principles and purpose of test methods implemented (why they are used and what they demonstrate)
- technological advances that include automation
- awareness of environmental sustainability issues as they relate to the work task

- legal, ethical and work health and safety (WHS) requirements specific to the work task including traceability, confidentiality and security requirements of all client information, and laboratory data and records.

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 laboratory
 - routine electrometric equipment, laboratory reagents and equipment, standard operating procedures (SOPs) and test methods.

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

Links

Training Package Companion Volumes -

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