



Australian Government

Assessment Requirements for MSL975070

Apply routine electrometric techniques

Release: 1

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Modification History

Release 1. Supersedes and equivalent to MSL975049 Apply routine electrometric techniques. Content of Element 6 integrated into Element 5. Minor changes to Performance Criteria. Removal of duplicating items in 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:

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

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

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