

Assessment Requirements for MSL974016 Perform physical and mechanical tests

Release: 1

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Modification History

Release	Comments
Release 1	New unit. Created by combining MSL974005 Perform physical tests and MSL974010 Perform mechanical tests.

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 at least 5 physical and/or mechanical tests that involve several measurement steps.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant physical and mechanical principles and concepts including:
 - matter, interatomic and intermolecular forces and states of matter
 - mechanical concepts, such as mass and weight; forces, friction, slip resistance, cohesive/adhesive forces; pressure, hydrostatic pressure; fluid flow; viscosity and energy
 - electrical concepts, such as electric field, voltage, current, resistance and AC/DC, and electrical safety
- purpose of tests or procedures conducted
- concepts of metrology, principles and concepts related to equipment and instrument operation, and test or procedure
- function of key components of equipment/instrument and effects on the test of modifying equipment and instrument variables
- sample preparation procedures
- calibration and basic equipment and method troubleshooting procedures
- preparation of sample methods
- typical tests and procedures
- workplace and/or legal traceability requirements
- · awareness of environmental sustainability issues as they relate to the work task
- legal, ethical and workplace 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, equipment and resources, including:
 - a standard laboratory equipped with appropriate sample preparation and test equipment/instruments, standards and materials
 - workplace procedures and standard methods
 - records, including test and calibration results; equipment use, maintenance and servicing history, and faulty or unsafe equipment.

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

Links

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

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

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