



Australian Government

Assessment Requirements for NWPGEN022 Perform laboratory testing

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- comparing sample description with the specification, recording results and reporting discrepancies
- calculating and recording test results
- interpreting laboratory test methods
- limiting hazards and contamination to self, work area and environment
- performing at least two types of sample preparations for the following:
 - digestion
 - dilution
 - filtration
 - heating/cooling
 - mixing/agitation
 - neutralisation/ quenching
 - sub sampling
- performing sub-sample and testing products
- producing laboratory reports
- registering and preserving samples
- selecting the correct equipment and checking equipment performance
- using laboratory safety equipment and personal protective equipment
- using the following laboratory equipment including:
 - gravimetric
 - potentiometric
 - spectrophotometric
 - volumetric

Knowledge Evidence

- calibration and pre-use equipment checks
- reference, standards or buffers

- principles of the standard methods for laboratory analysis
- procedures for recognition of unexpected or unusual results and likely causes
- purpose of tests
- relevant legislation, regulations and workplace procedures
- relevant workplace procedures for sampling and testing
- safety data sheets
- source of uncertainty in measurements and methods for control

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

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