



Australian Government

Assessment Requirements for NWPTRT008 Operate and control iron and manganese removal processes

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

- applying process formulae according to type of process
- completing documentation
- conducting routine process inspections
- identifying and reporting faults
- making process adjustments according to type of process
- monitoring test results and processes
- operating and controlling equipment and systems for removing iron and manganese
- reporting data outside of specified parameters to relevant personnel
- sampling and testing products

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of:

- chemical dosing processes
- chemical forms and occurrence of iron and manganese
- chemistry of common oxidation removal processes including aeration, chlorination, potassium permanganate
- components of iron and manganese systems
- impact of stratification in reservoirs
- ion exchange removal processes
- manganese coated filtration removal processes
- problems associated with iron and manganese in drinking water systems
- relevant legislation, regulations and workplace procedures
- sequestering with polyphosphates

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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