



**Australian Government**

# **Assessment Requirements for NWPTRT018 Operate and control ion exchange and softening 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**

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:

- collecting data and completing required documentation
- conducting routine plant inspections
- identifying and reporting faults
- making process adjustments according to workplace procedures
- monitoring test results and processes
- performing system calculations
- reporting data outside of specified parameters to relevant personnel
- solving operational problems
- taking samples and performing tests
- using safety and personal protective equipment

## **Knowledge Evidence**

- chemical principles of water treatment processes
- components of ion exchange and softening equipment
- equipment operation, capacity and limitations
- interpretation of safety data sheets
- ion exchange and softening process operation, capacity and limitations
- mechanical and electrical control systems
- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards involved with ion exchange and softening processes
- system layout

## **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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