



Australian Government

Assessment Requirements for NWPTRT044 Operate and control desalination processes

Release: 1

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Modification History

Release	Comments
1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages.

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. The candidate must be assessed in at least one of the desalination processes listed in the Range of conditions. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- determining chemical dosing requirements
- operating control equipment
- solving operational problems
- completing reports and logs
- using safety and personal protective equipment
- operating computerised equipment
- performing system calculations
- monitoring test results and processes
- identifying and reporting faults
- conducting routine plant inspections
- taking samples and performing basic tests
- making basic process adjustments according to instructions including the pre-treatment processes:
 - chemical cleaning
 - pre-treatment optimisation
 - flow control
 - waste disposal
- collecting data and completing required documentation

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- system layout
- system processes
- lockout procedures for mechanical and electrical installations
- communication systems
- pre-treatment processes
- hazardous materials handling
- interpretation of material safety data sheets
- principles that form the basis of reverse osmosis and nanofiltration processes
- risk factors and potential hazards
- equipment operation, capacity and limitations
- pipes and fittings
- pumping and valving systems
- mechanical and electrical control systems

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

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

Links

Companion Volume implementation guides are found in VETNet -

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

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