



**Australian Government**

# **Assessment Requirements for NWPTRT001 Operate and control water treatment processes**

**Release: 1**

# Assessment Requirements for NWPTRT001 Operate and control water treatment processes

## 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 operating at least two of the processes listed in the Range of Conditions, of which one must be from separation and one from disinfection. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- conducting routine plant inspections
- interpreting safety data sheets (SDS)
- applying basic mathematical formulae
- completing logs
- preparing and applying chemical dosing including at least one of:
  - pH adjustment
  - coagulants
  - polymers
  - flocculants
  - disinfectants
  - fluoride
- interpreting plans, charts and instructions

## 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.

- water cycle
- sources of water
- demands and uses of water, both domestic and industrial
- physical, chemical and microbiological characteristics of water within the water treatment process

- reasons for water treatment
- types of treatment plants and processes
- major chemicals and equipment used
- water treatment plant hazards
- risk factors and potential hazards associated with the operation of water treatment processes
- physical, chemical and microbiological characteristics of water within the water treatment process
- chemical and biological principles that form the basis of water treatment
- types of components
- relevant technologies
- water quality principles
- relevant guidelines and standards
- risk management principles of water treatment (HACCP)
- basic knowledge of types of chemicals and water chemistry

Candidate should demonstrate basic knowledge of all processes listed in Range of Conditions.

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

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