



**Australian Government**

**Assessment Requirements for NWPTRT091  
Operate and control solids handling  
processes**

**Release: 1**

# Assessment Requirements for NWPTRT091 Operate and control solids handling processes

## Modification History

Release	Comments
1	<p>These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages.</p> <ul style="list-style-type: none"><li>• Assessment Requirements created drawing upon specified assessment information from superseded unit</li></ul>

## Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- performing system calculations
- monitoring test results and processes
- identifying and reporting faults
- conducting routine plant inspections
- taking samples and performing basic tests including at least one of:
  - solids analysis
  - jar testing
  - sludge density
  - centrate clarity
  - dewatering process efficiency
- preparing and applying chemical dosing
- making basic process adjustments according to instructions, including at least one of:
  - loading rates
  - chemical dosing rates
  - dewatering polymers
  - centrifuge settings
- 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.

- process layout
- features and components of thickening and dewatering systems
- theory of process operation
- chemicals used for sludge conditioning including synthetic and organic polymers
- chemical dosing processes
- risk factors and potential hazards relating to thickening and dewatering systems
- risk control requirements including safety equipment and safety data sheets
- equipment operation, capacity and limitations
- hazardous materials handling
- environmental aspects of water and/or wastewater treatment
- interpretation and use of safety data sheets
- principles that form the basis of dewatering processes

## 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.

Some components of this unit require assessment in a workplace environment therefore the unit is not suitable for fully external or electronic based assessment.

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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