



Australian Government

Assessment Requirements for NWPTRT092 Operate and control digestion processes

Release: 1

Assessment Requirements for NWPTRT092 Operate and control digestion 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 one of the processes listed in Range of Conditions. If not otherwise specified the candidate must demonstrate evidence of performance of the following on least one occasion.

- planning and conducting routine inspections
- completing logs
- taking samples and performing basic tests, including at least one of:
 - pH
 - DO
 - Redox
 - total solids
 - volatile solids (aerobic)
 - gas composition
 - total solids
 - volatile solids
 - volatile acids
 - alkalinity (anaerobic)
- collecting samples for laboratory testing
- applying basic process formulae, including at least one of:
 - solids loading
 - volatile acids to alkalinity ratio
 - solids retention time
- making basic process adjustments according to instructions, including at least one of:
 - feed rate
 - air and oxygen feed rate
 - mixing

- pH (aerobic)
- feed rate
- sludge withdrawal
- mixing
- sludge feed rate
- pH (anaerobic)

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.

- digestion process principles
- types of hazards related to explosives, hydrogen sulphide, carbon dioxide
- differences between aerobic and anaerobic biological processes
- chemical dosing processes
- chemicals used for pH control, odour control, nutrient addition
- flow measurement
- risk factors and potential hazards relating to anaerobic bioreactor systems
- chemical and biological principles that form the basis of digestion
- hydraulic detention times
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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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