Australian Government

Assessment Requirements for NWPTRT054 Operate and control chloramination 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. • Assessment Requirements created drawing upon specified assessment information from superseded unit

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.

- operating control and chemical dosing equipment
- performing chloramination process calculations including at least one of:
  - chlorine and ammonia dose rate
  - chlorine to ammonia ratio
  - dichloramine concentration
- collecting samples and conducting tests including at least one of:
  - total chlorine
  - free chlorine
  - monochloramine
  - ammonia and hypochlorite strength
  - pH
- analysing tests
- identifying and reporting process and operational faults
- monitoring chloramination systems
- making appropriate system adjustments including at least one of:
  - flow rate
  - chlorine feed rate
  - ammonia feed rate
  - chlorine to ammonia ratio
  - calibration of chemical dosing equipment
- preparing and applying chloramination chemical dosing, including at least one of:

- liquefied chlorine gas
- sodium hypochlorite
- anhydrous ammonia
- aqua ammonia
- pH correcting chemicals including lime soda ash
- sodium hydroxide

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.

- microbiological aspects of water quality
- chloramination process theory
- chlorine and ammonia dosing equipment
- operational problems including nitrification
- lockout procedures for mechanical and electrical installations
- risk factors and potential hazards associated with chloramination processes
- equipment operation, capacity and limitations
- control and communications 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.

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

Consideration must be given to holistic assessment for this unit. Refer to advice in the companion volumes.

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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