



**Australian Government**

# **Assessment Requirements for NWPTRT024 Operate and control chloramination processes**

**Release: 1**

# Assessment Requirements for NWPTRT024 Operate and control chloramination processes

## Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- analysing tests
- collecting samples and conducting at least one of the following tests:
  - ammonia and hypochlorite strength
  - free chlorine
  - monochloramine
  - pH
  - total chlorine
- identifying and reporting process and operational faults
- making at least one of the following appropriate system adjustments:
  - ammonia feed rate
  - calibration of chemical dosing equipment
  - chlorine feed rate
  - chlorine to ammonia ratio
  - flow rate
- monitoring chloramination systems
- operating control and chemical dosing equipment
- performing at least one of the following chloramination process calculations:
  - chlorine and ammonia dosage rate
  - chlorine to ammonia ratio
  - dichloramine concentration
- preparing and applying at least one of the following chloramination chemical dosings:
  - anhydrous ammonia
  - aqua ammonia
  - liquefied chlorine gas
  - pH correcting chemicals including lime soda ash
  - sodium hydroxide
  - sodium hypochlorite

## Knowledge Evidence

- chloramination process theory
- chlorine and ammonia dosing equipment
- control systems
- equipment operation, capacity and limitations
- microbiological aspects of water quality
- operational problems including nitrification
- reasons for chloramination
- risk factors and potential hazards associated with chloramination processes
- workplace policies and procedures, legislation and industry codes of practice

## Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

## 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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