



Australian Government

Assessment Requirements for NWPTRT013 Operate and control liquefied chlorine gas disinfection

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.

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. To be deemed competent the candidate must be assessed in at least one type of handling procedure, using at least one type of chlorine draw and at least one type of container listed in the Range of Conditions. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- applying correct liquefied chlorine gas container procedures for transport, handling and storage
- operating safely and following procedure when disconnecting and reconnecting gas draw or liquid draw chlorinator systems
- interpreting safety data sheets (SDS)
- selecting, fitting and using PPE, including air supplied self-contained breathing apparatus
- implementing relevant Australian standards, SDS requirements and other legislative and organisational requirements
- following emergency protocols and procedures relating to liquefied chlorine gas hazards
- collecting samples and conducting tests, including at least one of:
 - free chlorine
 - total chlorine
 - pH
 - turbidity
 - temperature
- performing process calculations, including at least one of:
 - feed rate
 - dosage
 - Ct.

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.

- personal protective equipment and its application
- self-contained breathing apparatus
- emergency equipment and its application
- properties of liquefied chlorine gas
- basic function and components of gas draw or liquid draw chlorinator systems
- hazards of liquefied chlorine gas handling
- safety data sheet (SDS)
- procedures for liquefied chlorine gas container for transport, handling and storage
- maintenance procedures for personal protective equipment
- AS/NZS 2927 The storage and handling of liquefied chlorine gas
- relevant federal and state or territory legislation and regulations
- codes of practice, associated standards and guidance material
- documented organisational policies, manuals and induction programs
- microbiological guidelines
- reactions with water to produce hypochlorous/hypochlorite ion
- impact of pH on above
- chlorine demands
- disinfection by-products
- breakpoint
- contact time
- Ct.
- chlorine residuals

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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