



Australian Government

Assessment Requirements for NWPTRT055 Operate chlorine dioxide processes

Release: 1

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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">• Assessment Requirements created drawing upon specified assessment information from superseded unit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.

- applying policies, regulatory standards and standard operating procedures
- giving and receiving instructions
- performing chlorine dioxide calculations
- identifying control system faults and operational problems
- identifying hazards
- conducting microbiological and chlorine dioxide residual sampling
- using literacy skills in regard to verbal and written communication in the workplace
- interpreting material safety data sheets (SDS)
- scheduling work
- selecting and using appropriate tools and equipment, including personal protective equipment
- monitoring chlorine dioxide disinfection processes
- collecting process samples and performing standard tests
- collecting and reporting process data, including at least one of:
 - pH
 - chlorine dioxide residuals
- preparing and applying chemical dosing, including at least one of:
 - pH adjustment (lime, soda ash or caustic)
 - generation of chlorine dioxide (sodium chlorite, hydrochloric acid, sodium hypochlorite and/or liquefied chlorine)

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.

- properties and chemistry of chlorine dioxide
- pH
- microbiological water quality guidelines
- chlorine dioxide system layout
- lockout procedures for mechanical and electrical installations
- policies, standard operating procedures and legislation
- communication systems
- hazardous substances handling
- risk factors and potential hazards associated with chlorine dioxide
- work-related chlorine dioxide calculations
- chlorine dioxide dosing processes
- chlorine dioxide generation equipment operation, capacity and limitations
- effects of weather and conditions on operation of site or plant
- pumping and valving systems
- automatic feed rate control systems
- SDS
- understanding of the risk management principles of ADWG and/or AGWR

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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