



Australian Government

Assessment Requirements for NWPTRT025 Monitor and operate chlorine dioxide processes

Release: 1

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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:

- collecting and reporting on at least one of the following data processes:
 - chlorine dioxide residuals
 - pH
- collecting process samples and performing standard tests
- conducting chlorine dioxide residual sampling
- identifying control system faults and operational problems
- interpreting safety data sheets
- monitoring chlorine dioxide disinfection processes
- performing chlorine dioxide calculations
- preparing and applying chemical dosing, including at least one of:
 - generation of chlorine dioxide (sodium chlorite, hydrochloric acid, sodium hypochlorite and/or liquefied chlorine)
 - pH adjustment (lime, soda ash or caustic)
- selecting and using appropriate tools and equipment, including personal protective equipment

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of:

- automatic feed rate control systems
- chlorine dioxide including:
 - chlorine dioxide generation equipment operation, capacity and limitations
 - chlorine dioxide system layout
 - dosing processes
 - properties and chemistry
- hazardous substances handling
- impact of pH
- microbiological water quality guidelines

- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards associated with chlorine dioxide
- safety data sheets

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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