



**Australian Government**

# **NWPTRT013 Operate and control liquefied chlorine gas disinfection**

**Release: 1**

# NWPTRT013 Operate and control liquefied chlorine gas disinfection

## Modification History

Release	Comments
1	<p>This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages.</p> <ul style="list-style-type: none"><li>• New unit, created drawing upon information from deleted unit NWP277A</li></ul>

## Application

This unit describes the skills required to monitor and operate liquefied chlorine gas disinfection systems and report on process quality control whilst working safely. This includes being able to demonstrate correct use of self-contained breathing apparatus.

This unit applies to those working as operational staff with specific responsibility for disconnecting and connecting liquefied chlorine gas containers in water and wastewater treatment plants.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to including WHS and handling dangerous goods.

Those undertaking this unit would work under supervision, while performing routine tasks, in a range of familiar contexts.

No licensing, legislative or certification requirements apply to unit at the time of publication.

## Competency Field

Treatment

## Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
<b>1. Prepare to work with liquefied</b>	1.1 Check work procedures and instructions for compliance. 1.2 Check hazard signage for compliance.

<b>chlorine gas</b>	1.3 Select and check tools and equipment. 1.4 Check first aid provisions for potential liquefied chlorine gas exposure hazards. 1.5 Select, fit and use personal protective equipment.
<b>2. Perform liquefied chlorine gas container changeover procedures</b>	2.1 Obtain and handle liquefied chlorine gas containers from the correct storage area. 2.2 Conduct connection and disconnection procedures for chlorine gas draw or chlorine liquid draw systems. 2.3 Move depleted <i>containers</i> within storage area. 2.4 Check and store tools and equipment.
<b>3. Monitor process performance</b>	3.1 Conduct and perform process tests and compare performance to process operational requirements. 3.2 Set critical control point dosing points according to organisation procedures. 3.3 Maintain and monitor relevant WHS requirements. 3.4 Make process adjustments as required to maintain effectiveness of the disinfection system.
<b>4. Complete documentation</b>	4.1 Collect and record process data. 4.2 Report observations outside defined parameters for further action.

## Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning					Reading					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

## Range of Conditions

Handling procedures include:	<ul style="list-style-type: none"><li>• transport and handling of liquefied chlorine gas containers</li><li>• container disconnection and connection procedures for chlorine gas or chlorine liquid draw systems</li><li>• storage of liquefied chlorine gas cylinders or drums</li></ul>
Types of chlorine draw include:	<ul style="list-style-type: none"><li>• liquid draw</li><li>• gas draw</li></ul>
Types of containers include:	<ul style="list-style-type: none"><li>• cylinders</li><li>• drums</li><li>• tanker deliveries</li></ul>

## Unit Mapping Information

No equivalent unit.

## 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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