



Australian Government

NWPNET001 Disinfect network assets

Release: 1

NWPNET001 Disinfect network assets

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages.

Application

This unit describes the skills required to disinfect network assets including where additional disinfection of the supply is required. This includes planning and preparing the work site and performing volumetric calculations.

This unit applies to those working as field and operational staff with responsibility for the operation and maintenance of chemical dosing equipment.

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.

Those undertaking this unit would work independently under indirect supervision while performing routine tasks with a moderate level of complexity in a familiar context.

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

Competency Field

Networks

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.
1. Plan and prepare work	1.1 Determine work requirements from specifications, instructions and pre-work inspections. 1.2 Conduct risk assessment for environment, safety and water quality factors. 1.3 Select and check equipment and personal protective equipment to meet safety requirements of task and site.

	1.4 Determine size of area to be disinfected. 1.5 Perform calculations to establish dose rate and target residual and contact time.
2. Conduct disinfection	2.1 Set up equipment at injection point. 2.2 Commence dosing at predetermined dose rate. 2.3 Perform residual measurement to ensure the target residual is being met. 2.4 Achieve contact time and stop dosing. 2.5 Operate the dosing equipment.
3. Finalise work	3.1 Collect samples ensuring that types, locations and times comply with requirements. 3.2 Prepare samples for laboratory testing according to requirements. 3.3 Check, maintain and store equipment, tools and materials. 3.4 Restore the worksite and complete and submit workplace records.

Foundation Skills

Range of Conditions

Network assets include:	• network mains and services • network storages • bores
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Unit Mapping Information

No equivalent unit.

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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Assessment Requirements for NWPNET001 Disinfect network assets

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. The candidate must be assessed on at least one of the network assets within the Range of Conditions. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- conducting risk assessment
- performing volumetric calculations
- operating network mains
- operating control valves and pump stations
- handling of chlorine in different forms, including at least one of:
 - gas
 - liquid
 - solid
- operating and maintaining chemical dosing equipment
- operating of analytical equipment
- reading maps and diagrams

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.

- safe limits of disinfectant residual
- water network operation
- principles of chlorination and chloramination
- basic water chemistry
- interrogation of SCADA system

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.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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