



Australian Government

NWPTRT006 Monitor and operate fluoride addition processes

Release: 1

NWPTRT006 Monitor and operate fluoride addition processes

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to monitor and operate fluoride addition processes.

It includes preparing for fluoridation processes, applying fluoride dosing and reporting on water quality control.

This unit applies to those working as water operators responsible for fluoridation processes in water treatment. Those undertaking this unit would work under appropriate supervision, while performing routine tasks, in a range of familiar contexts.

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

Pre-requisite Unit

Not applicable.

Competency Field

Treatment

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for work

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Determine work requirements from job specifications and plans

1.2 Select and check equipment required to meet safety

		requirements of task and worksite
	1.3	Select, fit and use required safety equipment, including personal protective equipment (PPE)
	1.4	Handle and store fluoridation chemicals according to workplace procedures
2	Monitor processes	
	2.1	Monitor fluoridation processes according to workplace procedures
	2.2	Collect samples and conduct process tests according to workplace procedures
	2.3	Perform calculations and make process adjustments to maintain effectiveness of fluoride according to workplace procedures
	2.4	Monitor the parameter set points for critical control points and operational control points
3	Apply fluoride dosing	
	3.1	Prepare and apply fluoridation chemicals according to workplace procedures
	3.2	Control fluoride dosing to maintain required fluoride concentration
	3.3	Maintain information relating to fluoride supply and usage according to workplace procedures
4	Complete documentation	
	4.1	Collect, record and complete process data according to workplace procedures and process requirements
	4.2	Identify data outside of normal operational parameters to relevant personnel for further action

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPTRT012 Operate and control fluoride addition process.

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 NWPTRT006 Monitor and operate fluoride addition processes

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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:

- calculating average fluoride concentrations
- collecting and reporting process data
- collecting process samples and determining fluoride residuals
- completing documentation
- determining work requirements
- identifying and reporting control system faults and operational problems
- identifying and reporting hazards
- interpreting and following safety data sheets (SDS)
- performing fluoride chemical dosing calculations
- preparing and applying fluoride dosing safely
- 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
- fluoride addition points
- fluoride dosing processes and calculations
- fluoride sampling and record keeping
- fluoride system layout
- policies and workplace procedures for fluoride processes
- properties of fluoridation chemicals
- relationship of fluoridation to public health
- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards associated with fluoridation
- safe handling of fluoride compounds with reference to 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.

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