



**Australian Government**

**NWPTRT085 Assess and improve  
wastewater processes to control microbial  
impacts**

**Release: 1**

# NWPTRT085 Assess and improve wastewater processes to control microbial impacts

## 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> <p>This unit supersedes and is equivalent to NWP414A Select strategies to control microbial impact on wastewater treatment processes.</p> <ul style="list-style-type: none"> <li>• Unit code updated</li> <li>• Content and formatting updated to comply with the new standards</li> <li>• All PC transitioned from passive to active voice</li> <li>• Unit title changed to better reflect unit outcomes</li> <li>• PC 2.3 revised</li> </ul>

## Application

This unit describes the skills required to identify wastewater microorganisms and select appropriate measures to optimise the growth of beneficial microorganisms.

This unit applies to those working as wastewater treatment operational specialists.

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 autonomously, performing sophisticated tasks in a familiar context.

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. Investigate wastewater microorganisms</b>	1.1 Identify a range of typical wastewater microorganisms. 1.2 Identify the general characteristics of different types of microorganisms. 1.3 Identify wastewater characteristics that impact on microorganism growth. 1.4 Identify the problems caused by microorganisms in specific wastewater treatment processes.
<b>2. Select strategies to optimise the growth of beneficial microorganisms</b>	2.1 Investigate the cause of effluent quality issues. 2.2 Investigate the operational status of the wastewater treatment process. 2.3 Assess the effectiveness of various process control strategies to optimise the growth of beneficial microorganisms. 2.4 Select the most appropriate method.
<b>3. Identify and report on appropriate process controls</b>	3.1 Identify treatment process conditions for optimising the growth of beneficial microorganisms. 3.2 Report on appropriate treatment processes and associated sampling and testing requirements.

## 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 NA					Numeracy NA				

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.

## Unit Mapping Information

This unit supersedes and is equivalent to NWP414A Select strategies to control microbial impact on wastewater treatment processes.

## 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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