



**Australian Government**

**NWPTRT066 Assess and improve  
wastewater processes to control microbial  
impacts**

**Release: 1**

# **NWPTRT066 Assess and improve wastewater processes to control microbial impacts**

## **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 assess and improve wastewater processes to control microbial impacts.

It includes identifying wastewater microorganisms and selecting appropriate measures to optimise the growth of beneficial microorganisms.

This unit applies to those working as wastewater treatment operational specialists. Those undertaking this unit would work autonomously, usually with supervisory responsibilities, while performing complex tasks in a range of 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 Investigate wastewater microorganisms**

### **PERFORMANCE CRITERIA**

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

#### **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
- 2 Select strategies to optimise the growth of beneficial microorganisms**
  - 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** Identify hazards, assess risks and control measures according to workplace procedures
- 3 Identify and report on appropriate process controls**
  - 3.1** Identify treatment process conditions for optimising the growth of beneficial microorganisms
  - 3.2** Compile report with recommendations for optimising the growth of beneficial microorganisms

## 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 NWPTRT085 Assess and improve wastewater processes

and microbial impacts.

## **Links**

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>