



**Australian Government**

# **NWPTRT033 Operate and control DAF processes**

**Release: 1**

## NWPTRT033 Operate and control DAF processes

### 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 units NWP352B and NWP407A</li></ul> |

### Application

This unit describes the skills required to operate and control the dissolved air flotation (DAF) process and to measure and report on system performance and process quality control. The ability to identify faults and determine and apply technical adjustments is essential to performance.

This unit applies to those working as operational staff with a specific responsibility for dissolved air flotation (DAF) processes.

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 under supervision, while performing routine tasks, within 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. Plan and prepare for</b>           | <p>1.1 Determine work requirements from job specifications and plans.</p> <p>1.2 Select and check equipment to meet safety requirements of task</p>                                                     |

|                                       |                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>work</b>                           | and site.<br>1.3 Select, fit and use personal protective equipment.                                                                                                                                                                                                                                                                 |
| <b>2. Operate and control process</b> | 2.1 Carry out routine inspection on assets.<br>2.2 Collect process samples.<br>2.3 Carry out routine tests.<br>2.4 Identify and report process faults and operational condition of assets.<br>2.5 Carry out basic process adjustments to enhance process performance.<br>2.6 Monitor processes to maintain parameters of operation. |
| <b>3. Complete documentation</b>      | 3.1 Collect, record and complete process data.<br>3.2 Identify data that falls outside normal parameters and report 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

|                                   |                                                                                                                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DAF process applications include: | <ul style="list-style-type: none"> <li>for drinking water             <ul style="list-style-type: none"> <li>clarification</li> <li>combined filtration and clarification (DAFF)</li> </ul> </li> <li>for wastewater</li> </ul> |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |                                                                                                                                                                      |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"><li>• sludge thickening</li><li>• for industrial water</li><li>• fat, oils and grease removal</li><li>• metal separation</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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