



Australian Government

Assessment Requirements for NWPTRT016 Operate and control dissolved air flotation processes

Release: 1

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Modification History

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

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:

- applying a relevant dissolved air flotation (DAF) process on at least one of the following categories of water including:
 - drinking water
 - industrial water
 - wastewater
- collecting samples and conducting tests including at least one of the following:
 - colour
 - flotation tests
 - jar testing
 - solids
 - turbidity
- completing documentation
- conducting routine plant inspections
- identifying and reporting faults
- making at least one of the following process adjustments:
 - recycled flow rate
 - saturator pressure
 - water level
- monitoring test results and processes
- performing process calculations including:
 - hydraulic loading rate
 - recycle ratio

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:

- chemicals used for coagulation and flocculation or thickening
- DAF process operations theory
- features and components of DAF systems
- feed water quality impacts and characteristics
- process adjustments
- range of appropriate measuring and testing procedures including:
 - float solids content
 - true colour
 - turbidity
- relevant legislation, regulations and workplace procedures
- types of DAF processes including:
 - dissolved air flotation
 - dissolved air flotation filtration (DAFF)
 - dissolved air flotation sludge thickening

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.

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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