



Australian Government

Assessment Requirements for NWPTRT033 Operate and control DAF processes

Release: 1

Assessment Requirements for NWPTRT033 Operate and control DAF processes

Modification History

Release	Comments
1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages.

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. The candidate must be assessed in at least one of the DAF processes listed in the Range of Conditions. If not otherwise specified the candidate must demonstrate evidence of performance of the following on least one occasion.

- identifying reporting faults
- completing logs
- performing process calculations including:
 - recycle ratio
 - hydraulic loading rate
- preparing and applying chemical dosing
- monitoring test results and processes
- conducting routine plant inspections
- taking samples, adjusting dosing and performing basic tests, including at least one of:
 - pH
 - flotation tests
 - colour
 - turbidity
 - solids
 - jar testing
- making basic process adjustments according to instructions, including at least one of:
 - saturator pressure
 - water level and flow rate

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- features and components of dissolved air flotation systems, including:
 - valves
 - recycle pumps
 - compressor
 - saturator
 - float removal mechanism
 - dispersion valves
 - cutting sprays
- making basic process adjustments according to instructions, including:
 - air loading
 - recycle flow rates
 - saturated pressure
 - detention time
 - float removal frequency
 - intended plant configuration
- water quality impacts or mixed liquor characteristics, including:
 - turbidity
 - colour
 - presence of algae
 - temperature
 - suspended solids
- types of dissolved air flotation processes, including:
 - dissolved air flotation
 - dissolved air flotation filtration (DAFF)
 - dissolved air flotation sludge thickening
- range of appropriate measuring and testing procedures, including:
 - turbidity
 - true colour
 - float solids content
- chemicals used for coagulation and flocculation or thickening
- theory of process operations, including:
 - dissolved air flotation/clarification
 - dissolved air flotation/filtration
 - dissolved air flotation/sludge thickening

Candidate should demonstrate basic knowledge of all processes listed in Range of Conditions.

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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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