



Australian Government

Assessment Requirements for NWPTRT032 Assess and improve sedimentation processes

Release: 1

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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. Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- conducting investigations and reporting on operational or control system problems
- coordinating sedimentation and clarification inspection, sampling and testing
- performing calculations to provide data for the analysis and development of options and solutions, including at least one of:
 - surface loading rate
 - upflow velocity
 - detention time
 - weir loading rate
- interpreting a range of complex and technical documents, including at least one of:
 - regulatory, legislative, licensing and organisational requirements
 - codes and standards
 - specifications
 - organisational policies
- articulating complex ideas
- analysing problems and recommending appropriate remedial solutions
- identifying risks and hazards
- reviewing existing sedimentation and clarification process performance with reference to historical data, differences in incoming water quality and plant configuration
- identifying data deficiencies and organising additional data collection through appropriate sampling and testing
- assessing fault reports and investigating the current operational status of sedimentation and clarification plant components

- investigating current and potential chemical addition practices
- planning trials to test the performance of the determined sedimentation and clarification optimisation options and compiling recommendation reports

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.

- principles that form the basis of sedimentation and clarification processes
- types of sedimentation and clarification processes
- re-establishing sludge blankets
- polymers and weighting agents
- principles of sedimentation and clarification system maintenance
- system layout
- pumping and valving systems
- range of appropriate measuring and testing procedures
- investigation procedures
- risk management principles relating to sedimentation and clarification systems
- chemical dosing processes

Assessment Conditions

Competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace, the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice.

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

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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