



Australian Government

Assessment Requirements for NWPTRT064 Assess and improve sedimentation 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:

- assessing fault reports and investigating the current operational status of sedimentation and clarification plant components
- conducting investigations and reporting on operational or control system problems including sedimentation and clarification inspection, sampling and testing
- identifying and responding to risks and hazards
- identifying data deficiencies and organising additional data collection through appropriate sampling and testing
- interpreting a range of complex and technical documents including at least one of the following:
 - codes of practice
 - national and industry standards
 - organisational policies
 - regulatory, legislative, licensing and organisational requirements
 - specifications
- investigating current and potential chemical addition practices
- operating a sedimentation process
- performing calculations to provide data for the analysis and development of options and solutions, including at least one of:
 - detention time
 - surface loading rate
 - upflow velocity
 - weir loading rate
- planning trials to test the performance of the determined sedimentation and clarification optimisation options and compiling recommendation reports
- reviewing existing sedimentation and clarification process performance with reference to historical data, differences in incoming water quality and plant configuration

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 include knowledge of:

- investigation procedures
- polymers and weighting agent characteristics and applications
- principles of sedimentation and clarification processes and asset operation
- range of appropriate measuring and testing procedures
- re-establishing and maintaining sludge blankets
- relevant legislation, industry standards and workplace policies and procedures relating to the assessment and improvement of sedimentation processes
- risk and hazard management principles relating to sedimentation and clarification systems
- system layout
- types of sedimentation and clarification processes
- workplace reporting requirements

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>