



Australian Government

Assessment Requirements for NWPTRT023

Monitor and operate ultraviolet processes

Release: 1

Assessment Requirements for NWPTRT023 Monitor and operate ultraviolet processes

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:

- collecting and reporting process data
- identifying and responding to process faults
- identifying hazards
- interpreting and following safety data sheets
- maintaining and operating ultraviolet (UV) irradiation disinfection systems
- monitoring, operating and reporting on UV irradiation disinfection systems
- performing calculations to determine ultraviolet generation requirements
- performing at least one of the following standard tests:
 - hardness
 - iron
 - lamp intensity
 - suspended solids
 - total organic carbon
 - turbidity
 - ultraviolet transmittance (UVT)
- selecting and using appropriate tools and equipment including personal protective equipment
- using cleaning chemicals, safely

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:

- effects of weather and conditions on operation of worksite or plant
- lockout procedures for mechanical and electrical installations
- microbiological water quality guidelines
- risk factors and potential hazards associated with UV irradiation systems
- safe use of cleaning chemicals and prevention of associated hazards
- safety data sheets

- UV irradiation disinfection systems including:
 - components
 - layout
 - maintenance
 - operation
 - properties
- UV irradiation generation equipment operation, capacity and limitations
- workplace policies and procedures, legislation and industry codes of practice

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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