



Australian Government

Assessment Requirements for NWPTRT053 Operate and control UV 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 • Assessment Requirements created drawing upon specified assessment information from superseded unit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.

- using cleaning chemicals
- applying policies, standard operating procedures and regulatory standards
- performing calculations
- identifying control system faults and operational problems
- identifying hazards
- interpreting safety data sheets (SDS)
- monitoring, operating and reporting on UV irradiation disinfection systems
- scheduling work
- selecting and using appropriate tools and equipment, including personal protective equipment
- monitoring UV irradiation disinfection systems
- collecting process samples
- performing standard tests, including at least one of:
 - UVT
 - turbidity
 - suspended solids
 - iron
 - lamp intensity
 - hardness
 - total organic carbon
- maintaining and operating UV irradiation disinfection systems

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.

- properties of UV irradiation
- microbiological water quality guidelines
- UV irradiation disinfection system layout, including components
- lockout procedures for mechanical and electrical installations
- policies, standard operating procedures and legislation
- communication systems
- safe use of cleaning chemicals and prevention of associated hazards
- risk factors and potential hazards associated with UV irradiation systems
- UV irradiation generation equipment operation, capacity and limitations
- effects of weather and conditions on operation of site or plant
- SDS

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.

Some components of this unit require assessment in a workplace environment therefore the unit is not suitable for fully external or electronic based assessment.

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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