



Australian Government

NWPTRT026 Monitor and operate ozone processes

Release: 1

NWPTRT026 Monitor and operate ozone processes

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to monitor and operate ozone processes.

It includes monitoring and operating ozone treatment systems, preparing and applying chemical dosing and reporting on process quality control.

This unit applies to operational staff with specific responsibility for ensuring ozone treatment systems comply with workplace requirements. Those undertaking this unit would work under appropriate supervision while performing routine tasks in a range of familiar contexts.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Treatment

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for work

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Determine work requirements from job specifications and plans

1.2 Select and check equipment and ozone supplies to meet safety requirements of task and site

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|----------|-------------------------------|--|
| | 1.3 | Select, fit and use required safety equipment including, personal protective equipment (PPE) |
| 2 | Monitor processes | |
| | 2.1 | Monitor ozone generation and treatment processes according to workplace procedures |
| | 2.2 | Collect process samples and conduct standard tests according to workplace procedures |
| | 2.3 | Make process adjustments to maintain effectiveness of ozone treatment |
| | 2.4 | Monitor the parameter set points for critical control points and operational control points |
| | 2.5 | Calculate dosage and disinfection performance for ozone treatment |
| | 2.6 | Control ozone generation and dosing to maintain operational parameters |
| 3 | Complete documentation | |
| | 3.1 | Maintain information relating to ozone generation and dosing |
| | 3.2 | Collect, record and complete process data according to workplace procedures and process requirements |
| | 3.3 | Identify data outside or normal operational parameters and report to relevant personnel for further action |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPTRT056 Operate and control ozone processes.

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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Assessment Requirements for NWPTRT026 Monitor and operate ozone processes

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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 process samples and performing standard tests including at least one of the following:
 - exhaust gas ozone concentration
 - ozone residual level in water supply
- collecting and reporting process data
- generating and applying ozone dosing safely
- identifying control system faults
- identifying hazards
- interpreting safety data sheets
- monitoring ozone treatment processes
- performing work-related ozone calculations
- selecting and using appropriate tools and equipment including personal protective equipment

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:

- automatic feed rate control systems
- hazardous substances handling
- microbiological guidelines
- operation, capacity and limitations of ozone generation equipment
- ozone properties including:
 - chemistry
 - calculation
 - dosing processes
 - system layout
- impact of pH
- risk factors and potential hazards associated with ozonation

- relevant legislation, workplace policies and industry standards
- safety data sheets

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.

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