



Australian Government

NWPTRT046 Operate and control incineration processes

Release: 1

NWPTRT046 Operate and control incineration 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 operate and control incineration processes.

It includes monitoring an incineration plant, measuring and reporting on system performance and process quality control. It also includes identifying faults and determining and applying technical adjustments essential to performance.

This unit applies to operational staff with a specific responsibility for incineration processes in water treatment plants. Those undertaking this unit would work under appropriate supervision, while performing routine tasks, within 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

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|----------|--------------------------------------|--|
| | 1.2 | Select and check equipment required to meet safety requirements of task and worksite |
| | 1.3 | Select, fit and use required safety equipment, including personal protective equipment (PPE) |
| | 1.4 | Monitor online instrumentation trends and combustion processes to maintain parameters of operation |
| 2 | Operate and control processes | |
| | 2.1 | Conduct routine inspections according to workplace procedures |
| | 2.2 | Identify and report process faults to relevant personnel |
| | 2.3 | Collect process samples and conduct standard tests according to workplace procedures |
| | 2.4 | Interpret data and make process adjustments to maintain operational parameters |
| 3 | Complete documentation | |
| | 3.1 | Collect, interpret and record process data according to workplace procedures and process requirements |
| | 3.2 | Identify data outside of 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 NWPTRT094 Operate and control incineration 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 NWPTRT046 Operate and control incineration processes

Modification History

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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:

- identifying control system faults
- making system adjustments
- monitoring and operating equipment and systems for incineration operation
- monitoring, recording and reporting incineration by-products
- performing routine calculations when sampling and monitoring incineration performance
- preparing and applying incineration processes according to workplace procedures
- reporting data outside of specified parameters to relevant personnel
- sampling and testing products

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:

- components of incineration systems
- composition of incineration end-products including:
 - ash
 - cooling water by-products
 - gaseous emissions
- equipment operation, capacity and limitations
- hazardous materials handling
- lockout procedures for mechanical and electrical installations
- mechanical and electrical control systems
- incineration system layout
- incineration system processes
- relevant legislation, regulations and workplace procedures

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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