



Australian Government

NWPNET035 Perform odour and infiltration investigations

Release: 1

NWPNET035 Perform odour and infiltration investigations

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 perform odour and infiltration investigations.

It includes investigating and reporting odours and infiltration problems in the wastewater collection and transfer systems. It also includes resolving wastewater system problems, operating technical equipment and preparing technical reports.

This unit applies to those working as field and operational staff, with a specific responsibility for ensuring odour and infiltration problems are identified and remedied. Those undertaking this unit would work under appropriate supervision, while performing routine tasks in a familiar context, and ensuring minimum damage to the environment.

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

Pre-requisite Unit

Not applicable.

Competency Field

Networks

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for infiltration detection

PERFORMANCE CRITERIA

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

1.1 Determine worksite boundaries and infiltration detection requirements from plans, specifications and instructions

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| | 1.2 | Conduct risk assessment for environmental and safety factors including personal and protective equipment to ensure it is safe to commence work |
| | 1.3 | Select and check infiltration equipment according to workplace procedures |
| | 1.4 | Determine work requirements for the maintenance and repair of assets from work drawings, plans, specifications and instructions |
| | 1.5 | Identify, notify and communicate with customers according to workplace procedures |
| 2 | Investigate odour and infiltration complaints | |
| | 2.1 | Investigate root cause of odour and determine appropriate remedial action |
| | 2.2 | Control odour through repair or replacement by taking appropriate remedial action according to workplace procedures |
| | 2.3 | Update customer by advising of odour resolution methods utilised |
| 3 | Operate infiltration detection equipment | |
| | 3.1 | Operate infiltration equipment according to manufacturer instructions |
| | 3.2 | Determine the location of infiltration and mark according to testing outcomes and workplace procedures |
| | 3.3 | Maintain and repair structural damage to assets |
| | 3.4 | Restore worksite according to environmental and workplace procedures |
| 4 | Review, report and record work | |
| | 4.1 | Tag and report faulty equipment and tools and advise appropriate personnel |
| | 4.2 | Store equipment, tools and materials according to manufacturer and workplace procedures |
| | 4.3 | Complete and process workplace records according to workplace procedures |

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 NWPNET014 Perform odour and infiltration investigations.

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 NWPNET035 Perform odour and infiltration investigations

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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:

- completing required documentation
- conducting risk assessments
- identifying and reporting illegal inflows or discharges
- inspecting and selecting tools and equipment
- integrating processes
- interpreting and completing workplace documents
- interpreting plans, diagrams, charts, specifications
- investigating and reporting on odour and infiltration problems in the wastewater collection and transfer systems
- monitoring inflows
- reporting flow regulations, diversions and isolation of the site
- reviewing and addressing investigation results
- scheduling inspections and further corrective actions
- using safety equipment and 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:

- communication systems
- effects of weather and conditions on operation of collection infrastructure
- environment, landscape and ground structure of work area
- environmental aspects of wastewater collection systems and infrastructure
- gravity and control systems including infrastructure and system hydraulics
- infiltration and inflow sources
- monitoring processes
- plans, diagrams, charts, specifications
- relevant legislation and regulations
- relevant utilities and service bodies

- relevant workplace policies and procedures
- risk factors and potential hazards involved in wastewater collection systems equipment operation, capacity and limitations

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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