



Australian Government

NWPSOU033 Operate and maintain salt interception works

Release: 1

NWPSOU033 Operate and maintain salt interception works

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages.

Application

This unit describes the skills required to operate and maintain salt water interception works.

This unit applies to those working as field staff with the responsibility for making decisions relating to maintenance, repairs and operations as well as providing detailed reports on performance and optimisation of the salt interception works.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit will work independently under indirect supervision while performing routine tasks in a range of familiar contexts.

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

Competency Field

Source

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Plan and prepare work	1.1 Collect data from ground water. 1.2 Establish evaporation pond capacity. 1.3 Develop salt interception plan.
2. Operate salt interception works	2.1 Identify, set or adjust pump station components. 2.2 Carry out routine security inspections and cleaning duties. 2.3 Operate pump station.

3. Maintain salt interception works	3.1 Conduct routine maintenance of salinity pump stations. 3.2 Conduct acid dosing of salinity lines. 3.3 Maintain saline water collection and disposal pipelines. 3.4 Conduct repairs to pipe lines and valves. 3.5 Undertake minor civil construction works.
4. Enhance salt interception performance	4.1 Gather data and create a report on salt interception scheme performance. 4.2 Optimise salt interception performance. 4.3 Undertake hydraulic performance of saline collection and disposal pipelines.
5. Compile salt interception reports	5.1 Collect required data from monitoring points. 5.2 Report salt interception works performance.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning NA					Reading NA					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

No equivalent unit.

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 NWPSOU033 Operate and maintain salt interception works

Modification History

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1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages.

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.

- gathering bore data
- locking and tagging out of equipment
- storing, handling and using chemicals
- collecting samples and conducting water tests
- maintaining pumps, valves, pipes, dose acids
- maintaining bores and piezometers
- undertaking minor civil works including at least one of:
 - pipeline construction
 - concrete works
 - metal fabrication
- optimising pipelines and pump stations
- repairing pipelines and valves

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.

- groundwater hydraulics
- pump performance
- pipeline hydraulics
- chemical handling and dosing
- groundwater data collection
- environmental impacts of saline water
- maintenance scheduling

- valve selection and operation
- optimisation principles for pump stations and pipelines
- legislation relating to salt interception works

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.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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