



Australian Government

NWPHYD012 Establish monitoring sites

Release: 1

NWPHYD012 Establish monitoring sites

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. This unit supersedes and is equivalent to NWP342A Commission, decommission and monitor hydrometric sites, stations and facilities. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Unit title changed to better reflect unit outcomes • All Elements reworded • Element 4 removed • Two new PC added in Element 1 • One new PC added in Element 2 • PC 1.1 removed • PC 2.2 and 3.2 revised

Application

This unit of competency describes the skills required to establish monitoring sites to organisational standards. The ability to interpret and apply technical specifications and to establish sites to support the collection of data is central to successful performance.

This unit applies to hydrographers employed by the water industry and to water operators involved in the monitoring of all the elements of the water cycle and their impact on the related environment.

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, particularly those relating to WHS, Bureau of Meteorology, World Meteorological Organisation and Australian Standards.

Those undertaking this unit would work in small teams, mostly under supervision, while performing complex tasks in a broad range of contexts, that could be unpredictable, including remote, confined spaces, near water and/or at heights.

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

Competency Field

Hydrography

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 the establishment of monitoring sites and facilities	1.1 Identify monitoring requirements based on business objectives of the site or facility. 1.2 Identify and confirm the establishment requirements and standard procedures for the site or facility. 1.3 Consult with stakeholders. 1.4 Conduct site investigations and surveys to select sites and equipment fit for purpose. 1.5 Prepare project and risk management plans and designs for the establishment of the site or facility and secure authorisation.
2. Establish the site and facilities	2.1 Conduct a site specific risk assessment. 2.2 Identify, assemble and check the equipment required for the task prior to use. 2.3 Establish the site or facility according to the project plan. 2.4 Establish and register sites and ancillary infrastructure. 2.5 Complete records of the establishment process.
3. Support data collection	3.1 Determine and apply instrument and site maintenance schedules. 3.2 Determine and apply testing schedules. 3.3 Put in place processes to monitor instrument performance and take corrective action as required. 3.4 Maintain test records. 3.5 Compile and store reports and documentation.

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					Reading					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

This unit supersedes and is equivalent to NWP342A Commission, decommission and monitor hydrometric sites, stations and facilities.

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 NWPHYD012 Establish monitoring sites

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. The candidate must be assessed in doing at least two installations on at least two types of monitoring sites. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- applying construction and mechanical skills to the effective establishment of monitoring sites and facilities
- using work practices to minimise environmental impact of the establishment process
- using hand and power tools and other relevant equipment
- conducting inspections
- producing and compiling reports and documents
- reading and interpreting plans, specifications, maps and job instructions
- communicating with employees and customers
- using communication systems
- giving and receiving instructions
- applying skills specific to the industry and for working safely in remote locations including:
 - remote area survival
 - water safety
 - high-voltage work
 - hazardous environments
 - confined spaces
- gathering, interpreting and applying construction and technical documentation relating to the establishment of monitoring sites and facilities
- adhering to organisational and industry standards for testing and monitoring instruments
- working safely using safety equipment and personal protective equipment

- identifying, reporting and solving potential or actual problems with scope of job function.

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.

- mathematics and hydrology principles relevant to the role
- operating parameters, processes and capacity limitations of monitoring sites and facilities
- risk factors and potential hazards involved in establishing sites and facilities
- WHS procedures
- standards relevant to the installation tasks including construction standards and codes

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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