



**Australian Government**

**Assessment Requirements for  
NWPHYD016 Process and report  
hydrographic time series data**

**Release: 1**

## Assessment Requirements for NWP HYD016 Process and report hydrographic time series data

### Modification History

Release	Comments
1	<p>These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages.</p> <ul style="list-style-type: none"><li>• Assessment Requirements created drawing upon specified assessment information from superseded unit</li></ul>

## 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.

- communicating technical information using communication technology with colleagues, management and clients
- assessing the performance and limitations of the monitoring systems and sites employed in monitoring the network/catchment
- identifying and assessing the characteristics of hydrographs and pluviometer traces
- applying analytical tools for hydrographic data
- interpreting and applying technical documentation to the collection, analysis and reporting of hydrographic data
- identifying and responding effectively to operational problems
- using information and data management computer systems
- compiling, analysing, storing, archiving and verifying data
- producing hydrographic data reports to support organisational decision making
- gathering and interpreting complex documentation and applying it to the specification of hydrographic data collection and reporting procedures
- collecting samples
- identifying, reporting and resolving potential and actual problems
- estimating failed periods required by client, using:
  - verification of information
  - historical data
  - nearby sites and related parameters
  - copy and paste
  - applying peak stage level or total stored rainfall checks
  - estimation using standard processes and software
- applying and recording field verification checks including at least one of:
  - staff gauge reading
  - well tape check
  - survey level
  - peak level indicators
  - flood marks
  - rainfall storage and/or calibration check
  - EC on-site meter reading
  - groundwater down the casing tape check

## 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.

- the hydrographic cycle and its impact on the conditions and objectives of hydrographic time series data management
- measurement methods for collection and checking continuous hydrographic data in the field
- continuous data verification techniques
- mathematical and scientific techniques relevant to the analysis of hydrographic data
- computer software relevant to the analysis and archiving of hydrographic data
- water sampling and testing procedures
- policies and standard operating procedures for data analysis

## 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.

## Links

GSA website - <http://www.govskills.com.au>

NWP Implementation Guide -

<http://www.govskills.com.au/guides/water/implementation-guide>

NWP Assessment Guide - <http://www.govskills.com.au/guides/water/assessment-guide>

NWP Knowledge Guide - <http://www.govskills.com.au/guides/water/knowledge-guide>