

NWPHYD016 Process and report hydrographic time series data

Release: 1



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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 NWP509A Collect, verify and report hydrometric time series data.	
	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	
	• Elements 1 and 3 all PC reordered	
	• PC 2.3 revised	

Application

This unit describes the skills required to compile, interpret, analyse and verify data includingwater level (streams, lakes), rainfall, groundwater, soil moisture, evaporation, radiation, wind, temperature and electro conductivity. It also describes the skills required to produce hydrometric data reports to support organisational decision making.

This unit applies to hydrographers employed by the water industry and 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 autonomously, supervising staff, 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.

Approved Page 2 of 4

Competency Field

Hydrography

Elements and Performance Criteria

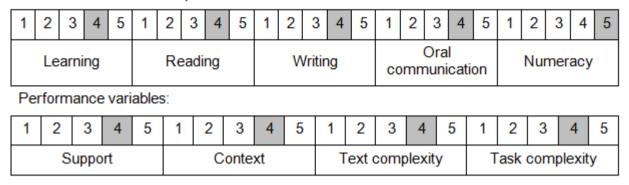
ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Prepare for collection of data	1.1 Identify objectives of time series, client's data and reporting requirements.
	1.2 Identify parameters and procedures for collection of hydrometric data.
2. Retrieve time	2.1 Retrieve and manage data.
series data	2.2 Reset data logger.
	2.3 Apply and record field verification checks.
	2.4 Complete field documentation.
3. Verify	3.1 Prepare working copy of data.
hydrometric data	3.2 Select data to be verified.
	3.3 Use standard processes, software, mathematical and scientific techniques to check, edit, verify, adjust and qualify data.
	3.4 Review and apply verification information and additional (backup time series) data sets to time series data and identify proposed adjustments to data.
	3.5 Use historical data, nearby sites and related parameters to validate data, identify data irregularities and ensure data integrity.
	3.6 Estimate failed periods required by client.
	3.7 Document checks and adjustments.
	3.8 Archive raw and/or processed data.
4. Prepare reports	4.1 Prepare standard reports to check integrity of verified data.
	4.2 Prepare client specific reports.
	4.3 Prepare verified data, documentation and reports for authorisation.
	4.4 File authorised information.

Approved Page 3 of 4

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:



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 NWP509A Collect, verify and report hydrometric time series data.

Links

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

NWP Implementation Guide -

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

NWP Foundation Skills Guide -

http://www.govskills.com.au/guides/water/foundation-skills-guide

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

Approved Page 4 of 4