



Australian Government

Assessment Requirements for AHCNRM504 Interpret and report on catchment hydrology

Release: 2

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Modification History

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has accessed and collated a wide range of hydrological information and data, and interpreted and reported outcomes to stakeholders.

There must also be evidence that the individual has:

- determined the movement of water within a catchment
- assessed processes within catchment to evaluate non-sustainable practices
- reported on catchment hydrological behaviour to workplace requirements
- applied work health and safety practices and biosecurity awareness to the collection and testing of water.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- hydrological cycles
- chemical and physical properties of water
- rock and soil types, including weathering processes
- fluvial geomorphology, including:
 - drainage basin function
 - factors influencing stream flow rates
 - interactions between ground and surface water
 - stream hierarchy and ordering
 - human impacts on surface water quality and quantity

- hydrogeology, including:
 - aquifer types and properties
 - aquifer discharge and recharge
 - rates of water movement through aquifers
 - human impacts on groundwater quality and quantity
- sustainable use of ground and surface water, including:
 - uses of water in catchments
 - water allocation
 - policies and strategies determining water use.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - digital technology and software for report writing and statistical analysis
- specifications:
 - workplace policies, procedures and processes for accessing, collating and manipulating hydrological data
 - site-related hydrological data sets
- relationships:
 - work team and supervisor.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>