



Australian Government

**Assessment Requirements for
NWPHYD011 Measure and process low
and medium flows using area velocity
methods**

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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">• Assessment Requirements created drawing upon specified assessment information from superseded unit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 at least one of the area velocity methods listed in the Range of Conditions. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- assessing risks and taking appropriate precautions and/or actions
- maintaining testing equipment in good order and calibrating
- interpreting and applying technical documentation
- using surveying equipment to identify site location
- performing basic mathematical calculations using safety equipment and personal protective equipment
- identifying potential or actual operational problems
- communicating with employees and customers
- using computer and communication systems
- giving and receiving instructions
- collecting discharge data
- gathering, interpreting and applying complex documentation related to the specification of hydrographic data collection and reporting procedures
- collecting samples
- analysing and verifying data using standard procedures, software and databases
- preparing reports
- storing and archiving data
- identifying, reporting and solving potential or actual problems within scope of job function
- positioning equipment

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.

- limitations of the system principle of area velocity measurement of discharge
- turbulent and laminar flow
- equipment testing procedures
- WHS procedure
- characteristics of a suitable section for wading and boat gauging and how to make modifications

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

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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