



Australian Government

Assessment Requirements for AHCECR302 Collect and preserve biological samples

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 Release 11.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Release 6.0.

Performance Evidence

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

There must be evidence that the individual has collected and preserved different samples from at least two monitoring sites with a total of at least five from each site.

There must also be evidence that the individual has:

- established the sampling purpose and schedule
- planned and arranged the collection with stakeholders
- prepared equipment and facilities
- carried out biological sampling according to monitoring program and enterprise procedures
- preserved and recorded samples and forwarded for testing according to monitoring program requirements
- recorded sampling data and observations
- reported outcomes of collection
- applied workplace health and safety and biosecurity procedures throughout collection process.

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:

- types of biological samples that may be included in the plan, including:
 - water
 - microorganisms
 - fungi

- micro and macro invertebrates
- plants
- animals including fish
- industry biological sampling and preserving guidelines and protocols
- identifying and selecting representative sampling sites
- field procedures for collecting and preserving biological samples for different environments and conditions, including:
 - random sampling
 - stratified sampling
 - systematic sampling
- collecting equipment and methods for specific environments and biological specimens, including:
 - marine and aquatic
 - terrestrial
 - arboreal
- preservation equipment and processes, including:
 - storage containers
 - labels and labelling information
 - preserving techniques and materials
- recognition of fauna and flora to be sampled
- health and safety considerations when sampling, including:
 - weather conditions and impact on site safety
 - personal protective equipment
 - toxicological and other personal health risks
 - physical site conditions and hazards.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated at a sampling site as specified in the Performance Evidence
- resources, equipment and materials:
 - specific tools and equipment required for the specified biological sampling to be performed
 - personal protective equipment
 - preservatives and cleaning agents
- specifications:
 - workplace procedures and processes for sample collection preservation and storage
 - specific safety data sheets for preservatives and cleaning agents

- workplace sampling plan
- standards and protocols for biological sampling.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>