



Australian Government

Assessment Requirements for AHCECR307

Read and interpret maps

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 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, on at least one occasion, the individual has read and interpreted maps, including:

- identified, selected and checked maps and equipment suitable for the navigation activity
- interpreted map data, symbols, lines and features on maps to identify locations
- assessed and selected routes to a location using a map
- navigated and traversed a route of at least 2km using maps and navigational aids
- identified current position by comparing nearby geographic features on maps, and recorded details with datum in coordinate system
- identified impediments to efficient navigation, and planned alternative routes
- interpreted map scale and estimated route distances
- marked location points on a map using map geographical features
- transferred information between Global Positioning System (GPS) and paper maps/charts, including:
 - adjusted GPS settings to required datum and measurement units
 - used GPS data to precisely record locations
 - entered point data from map/chart to GPS
- documented navigation activity.

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:

- principles and practices of maps and map reading
- types of maps and their use
- symbols and representations of topographical and geographical information used on maps, including:

- date of information
- common scales used on maps, and their purpose
- datums
- geographic coordinate system
- horizontal and vertical datum and production information dates
- features and use of common navigational aids, including:
 - map distance meter (analogue and digital)
 - compasses and dividers
 - rulers and protractors
- operation and functions of GPS navigation equipment
- transferring geographic information between paper maps and charts, and GPS systems
- advantages and disadvantages of different map and chart types, and sources of error
- techniques for determining routes and estimating distances.

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 outdoor setting suitable for map reading and navigational purposes or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - maps and navigational charts
 - navigational aids for map reading
 - GPS
- specifications:
 - manufacturer instructions for navigation aids.

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>