Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCNAR307 | Read and interpret maps |
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| Application | This unit of competency describes the skills and knowledge required to read and interpret road and topographical maps for navigation or positioning and plotting purposes.  The unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.  No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Natural Area Restoration (NAR) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Plan a route using a map | 1.1 Select maps, equipment and navigation aids and check for accuracy, currency and operational effectiveness for intended use  1.2 Identify relevant symbols, information and navigation on map  1.3 Identify and locate current position in the field on map using geographical features  1.4 Identify and locate required destination on map  1.5 Assess and select route to destination using map data  1.6 Plan a safe route to destination  1.7 Measure and estimate distance to destination using map scale for selected route |
| 2. Navigate using a map | 2.1 Navigate and traverse according to planned route and schedule  2.2 Orient the map or plan to surroundings and planned route  2.3 Use navigation aids to assist progress according to manufacturer instructions  2.4 Plan and navigate alternative routes to avoid inefficient route progress |
| 3. Plot sites and locations using maps and GPS | 3.1 Identify and locate point on map using landmarks and key geographical features  3.2 Use Global Positioning System (GPS) data to precisely record locations according to workplace procedures |

| Foundation Skills  This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. | |
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| Skill | Description |
| Reading | * Reads and interprets symbols and features on maps to determine special awareness to determine navigational route |
| Numeracy | * Performs mathematical calculations to interpret map spatial measurements and determine navigation routes and distances |
| Get the work done | * Takes responsibility for planning, sequencing and prioritising tasks and workload for efficiency and effective outcomes * Uses familiar digital technologies and systems to access map and geographic information |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCNAR307 Read and interpret maps | AHCNAR307 Read and interpret maps | Updated to meet Standards for Training Packages  Minor changes to Performance Criteria for clarity | Equivalent unit |

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

| TITLE | Assessment requirements for AHCNAR307 Read and interpret maps |
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| 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 demonstrated that they have read and interpreted maps including:   * interpreted 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 long using maps and navigational aids * identified current position by comparing nearby geographic features on maps * 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 and Global Positioning Systems (GPS) data. | |

| Knowledge Evidence |
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| 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 * common scales used on maps and their purpose * features and use of common navigational aids, including: * compass * map distance meter (analogue and digital) * GPS * compasses and dividers * rulers and protractors * advantages and disadvantages of different map and chart types and sources of error * techniques for determining routes and estimating distances. |

| Assessment Conditions |
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| Assessment of skills 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 * use of navigational aids for map reading * specifications: * use of 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. |

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