Modification history

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| Release | Comments |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 8.0. |

| ahcpCM3X8 | Identify and select plants |
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| Application | This unit of competency describes the skills and knowledge required to identify and select plants, including identifying commonly used plants, describing plants and explaining plant cultural requirements.  The unit applies to individuals who identify and select plants under broad direction, and take responsibility for their own work.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Plant Culture and Management (PCM) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Identify commonly used plants | 1.1 Observe morphological, tactile and sensory characteristics of plant specimens  1.2 Identify a variety of commonly used plant types in terms of function within the landscape  1.3 Identify commonly used plants to a common name, genus, species and cultivar level |
| 2. Describe plants based on growth and development requirements | 2.1 Describe types, functions and structure of roots, stems, trunks and vascular systems  2.2 Describe types, functions and structure of leaves, buds and meristems  2.3 Describe types, functions and structure of flowers, fruit and seeds |
| 3. Explain plant cultural requirements | 3.1 Explain cultural requirements of different types of plants  3.2 Explain growing conditions and their impact on plants and their performance  3.3 Refer to origins of the plant and its cultural requirements |
| 4. Identify plant use, site conditions, and select plants | 4.1 Identify function of plant use within the landscape  4.2 Identify site conditions related to plant use  4.3 Identify plants based on their cultural requirements and growth habit  4.4 Select plants |

| 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 | * Identify and interpret plant identification reference material |
| Oral Communication | * Participate in verbal exchanges, using clear language and standard industry terminology to describe plant growth and development requirements, and explain plant cultural requirements and growing conditions |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCPCM3X8 Identify and select plants | Not applicable | The unit has been created to address a skill or task required by industry that is not covered by an existing unit | Newly created |

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

| TITLE | Assessment requirements for AHCPCM3X8 Identify and select plants |
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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 the individual has identified and selected plants on at least one occasion and has:   * identified a minimum of 50 plants to common name and scientific name without using reference material * identified an additional 30 plants to scientific name using reference material, including online resources * identified function of plant use within the landscape and site conditions * selected a group of plants for three different scenarios, for use in a basic garden design. | |

| 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 of plant growth and development, including: * photosynthesis, light levels, quality and quantity * respiration, oxygen movement * transpiration, water movement within a plant * basic leaf structure and function, chlorophyl, stomata, photosynthesis, transpiration * basic stem structure and function, trunk, vascular structure, xylem, phloem, cambium, meristems * basic root structure and function * basic flower, fruit, seed structure * plant growth and life cycles, perennial, annual, evergreen, deciduous, dormancy * basic root structure, fibrous, adventitious, root hairs * plant growth requirements, soil, light levels, water, disease and pest protection, temperatures, and drainage * plant identification techniques, plant selection, plant physiology, and habit and growth characteristics of the plants * basic soil characteristics texture, in relation to the local region * taxonomy at the family, genus, species and cultivar level * grouping of plants, including: * trees * shrubs * perennials and annuals * herbs * grasses. |

| Assessment Conditions |
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| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions: * a workplace setting or an environment that accurately represents workplace conditions * resources, equipment and materials: * plants, cuttings and live specimens * reference material applicable to identifying and selecting plants * computer hardware and software.   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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