Modification history

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| Release | Comments |
| Release 1 | This version released with Plantation and Wood Products Training Package Training Package Version 7.0. |

| FWPFGM5XXX | Contribute to and implement a silviculture regime for plantation operations |
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| Application | This unit of competency describes the skills and knowledge required to select a silviculture regime consistent with plantation management objectives and contribute to the planning, implementation and monitoring of a silviculture regime for plantation operations.  The unit applies to individuals who undertake forester or forestry field officer job roles in the forest industry.  All work must be carried out to comply with workplace procedures according to state/territory health and safety and food safety regulations, legislation and standards that apply to the workplace.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Core |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1.Select silvicultural regime consistent with plantation management objectives | 1.1 Confirm plantation management objectives  1.2 Access sources of information required for making decisions on the choice of plantation silvicultural regime  1.3 Identify silvicultural regime to achieve plantation management objectives |
| 2. Plan plantation silvicultural operations | 2.1 Plan harvesting prescriptions consistent with plantation management objectives  2.2 Plan site establishment and planting prescriptions consistent with plantation management objectives  2.3 Plan spacing and thinning after establishment to manage competition between trees  2.4 Plan tending and pruning prescriptions consistent with plantation management objectives  2.5 Plan for control of perennial and annual weeds to achieve high survival, good growth rates and plantation access  2.6 Plan browsing controls consistent with plantation management objectives  2.7 Prepare guidelines for use of herbicides, pesticides and fertilisers in plantation management  2.8 Plan crop protection measures consistent with plantation management objectives  2.9 Plan surveys for post-harvest monitoring  2.10 Establish schedule for plantation silviculture activities according to workplace procedures  2.11 Calculate cost of plantation silvicultural operations according to workplace procedures |
| 3. Coordinate implementation of plantation silvicultural operations | 3.1 Coordinate implementation of silvicultural operations  3.2 Monitor staff and contractor compliance with prescriptions for silvicultural operations  3.3 Identify and resolve incidents of non-compliances within scope of responsibility and workplace procedures  3.4 Report on implementation of silvicultural operations to appropriate personnel |
| 4. Monitor effectiveness of plantation silviculture operations | 4.1 Implement monitoring procedures, including survival assessments, for assessing effectiveness of silvicultural operations  4.2 Analyse outcomes of surveys and reports on effectiveness of silviculture operations  4.3 Identify, plan and coordinate implementation of remedial treatments as required  4.4 Document outcomes of silvicultural operations and report to appropriate personnel |

| 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 | * Interpret complex written, technical information in source documents related to silviculture operations |
| Writing | * Design, develop and revise strategic documents appropriate to audience and context |
| Oral communication | * Use active listening and questioning techniques to convey and clarify information |
| Numeracy | * Analyse and compare complex statistical information related to silviculture operations |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPFGM5XXX Contribute to and implement a silviculture regime for plantation operations | Not applicable | New unit | Not applicable |

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| Links | Companion Volumes, including Implementation Guides, are available at VET Net: <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47> |

| TITLE | Assessment requirements for FWPFGM5XXX Contribute to and implement a silviculture regime for plantation operations |
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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 one occasion, the individual has contributed to the planning, coordinated the implementation and monitored the effectiveness of a silviculture regime for plantation operations. | |

| 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:   * plantation management objectives * social * economic * environmental * types and characteristics of plantation silvicultural regimes * purpose of plantation silviculture regime * production of wood and non-wood products * water yield * providing habitat for wildlife * carbon sequestration * components of plantation silviculture regime * management objectives * silviculture operations * monitoring and protection * approaches to planning, implementing and monitoring plantation silvicultural operations * harvesting * site establishment * planting * spacing and thinning after establishment * pruning * stocking standards * browsing controls * managing pests and disease * crop protection measures - fire, wind * surveys for post-harvest monitoring * survival assessments * remedial treatments * key elements of a prescription for plantation silviculture operations * techniques for monitoring silvicultural operations in plantations * techniques for the design, implementation and analysis of outcomes of post-harvest surveys. |

| Assessment Conditions |
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| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a plantation work environment or an environment that accurately represents workplace conditions * resources, equipment and materials: * a plantation * computing hardware and software for planning, implementing and monitoring plantation silviculture operations * stand data required for plantation silviculture operations * specifications: * workplace policy and procedures regarding plantation silviculture operations.   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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