



Australian Government

FWPSIL4003 Plan for and coordinate stem improvement operations

Release: 1

FWPSIL4003 Plan for and coordinate stem improvement operations

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to plan, coordinate and monitor stem improvement activities using pruning techniques and/or biological and chemical agents.

The unit applies to individuals who plan and coordinate stem improvement activities as part of forestry operations.

All work must be carried out to comply with workplace procedures, according to state/territory health and 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.

Pre-requisite Unit

Nil

Unit Sector

Silviculture (SIL)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan stem improvement operations	1.1 Source information on stem improvement planning 1.2 Identify and select stem improvement methods for managing stem quality and growth consistent with product requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Confirm workplace health, safety and environmental policies and procedures, including use of personal protective equipment, applicable to stem improvement activities 1.4 Determine and document measurable performance indicators, specifications and targets for stem improvement operations 1.5 Identify, seek and obtain required approvals from relevant authorities 1.6 Document stem improvement plan according to workplace procedures 1.7 Disseminate stem improvement plan and performance indicators to appropriate personnel
2. Coordinate the implementation of stem improvement operations	2.1 Coordinate and schedule resources required for stem improvement activities 2.2 Schedule personnel, activities, materials and equipment required for stem improvement operations 2.3 Supervise the work of personnel involved in stem improvement activities to achieve planned outcomes 2.4 Carry out systematic checks to ensure compliance requirements are met 2.5 Monitor and adjust stem improvement activities as required 2.6 Identify and control risks and hazards in work area
3. Review stem improvement operations	3.1 Assess and evaluate data from operations to confirm methods and costs are consistent with plan 3.2 Identify and document issues and impediments to stem improvement activities and program costs 3.3 Review stem improvement activities and make recommendations to improve future improvement operations 3.4 Record and report outcomes of stem improvement activities 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.

Skill	Description
Reading	Extract information from industry guides and standard references on different types of stem improvement activities
Writing	Prepare written reports for different audiences on stem improvement activities
Oral communication	Use clear, familiar and concise language and non-verbal communication techniques when directing activities of work teams
Numeracy	Itemise and calculate total cost of stem improvement activities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSIL4003 Plan for and coordinate stem improvement operations	FWPFGM3207 Coordinate stem improvement	Reworded title Updated Application Statement Reworded Elements Updated and added new Performance Criteria Updated and added new Knowledge Evidence and Performance Evidence Updated Foundation Skills Updated Assessment Conditions	Not equivalent

Links

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

Assessment Requirements for FWPSIL4003 Plan for and coordinate stem improvement 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 the individual has planned, coordinated and monitored stem improvement activities for one sample forested area using one of the following methods:

- pruning using mechanical or hand tools
- using chemicals or biological agents.

In undertaking this activity, the individual has:

- planned and coordinated a safe and effective stem improvement operation
- ensured personnel involved in stem improvement operations complied with workplace health, safety and environmental policies and procedures including:
 - recycling pruned material
 - disposing of pruned material that cannot be recycled due to chemicals or biological agents used
- identified and recommended methods and strategies to manage stem quality and growth
- determined and documented measurable performance indicators, specifications and targets for work
- supervised staff involved in carrying out stem improvement activities
- monitored stem improvement operation for efficiency and effectiveness
- reviewed and reported on outcomes of stem improvement activities.

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:

- purpose of stem improvement:
 - encourage tree growth to suit marketing requirements
 - increase yield
 - reduce tree defects

- regulations, standards, codes of practice and safe practices for coordinating stem improvement
- environmental protection requirements, including the safe disposal of waste material and chemicals
- stem improvement methods:
 - pruning using mechanical or hand tools
 - using chemicals or biological agents
- pruning techniques for target species
- tools and equipment used for stem improvement operations, and their safe use and maintenance, including:
 - pruners
 - jack saw
 - pouch
 - steps
 - epicormic remover
 - pole saw
 - ladder
 - climbing gear
- procedures for working safely at heights
- safe handling, use, storage and transport of chemicals
- procedures for recycling pruned material
- procedures for disposing of pruned material that cannot be recycled due to chemicals or biological agents used
- recognition and identification of species and plant identification sources
- approvals and documentation required for the use of chemical or biological agents
- hazards that may apply to stem improvement activities, including:
 - adverse weather conditions
 - adverse terrain conditions
 - use of machinery
 - use of chemicals or biological agents
 - procedures for recording and reporting workplace information.

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 a forest work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - site that requires stem improvement operations

- tools, machinery, equipment and materials for stem improvement activities
- personal protective equipment suitable for stem improvement activities
- personnel to undertake stem improvement activities
- specifications:
 - workplace health, safety and environmental policies and procedures applicable to stem improvement activities.

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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