



Australian Government

FWPCOT3255 Apply silvicultural principles

Release: 2

FWPCOT3255 Apply silvicultural principles

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit of competency describes the outcomes required to access, interpret and apply sustainable silvicultural principles to forests. It applies to those who identify target species, and who select and maintain merchantable trees for forest operations.

The unit applies to Forestry technician, Nursery technician, Supervisor (Forestry operations), Tree planter, Silviculturist, Arboriculture technician

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Forest Growing and Management

Harvesting and Haulage

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. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for silvicultural work	1.1 Identify and review information on regulatory requirements for sustainable forest operations for various forest types. 1.2 Identify and interpret key principles and requirements that inform

ELEMENTS	PERFORMANCE CRITERIA
	sustainable silvicultural methods and techniques. 1.3 Identify target species in line with approved forest operational plan and organisational procedures. 1.4 Review work order and identify and clarify sustainable forest requirements.
2. Assess forest condition	2.1 Select and use appropriate techniques and tools to measure tree and stand height. 2.2 Calculate basal area and assess tree dominance and crown vigour using an approved industry process. 2.3 Determine and record standing tree defects. 2.4 Identify and mark merchantable trees in line with organisational procedures.
3. Implement silvicultural practices	3.1 Calculate and apply tree retention and stocking criteria according to operational plan. 3.2 Select appropriate silvicultural methods and techniques to meet environmental and production requirements. 3.3 Identify situations requiring specialist advice and seek assistance.
4. Monitor work practices	4.1 Monitor and maintain sustainable forest practices. 4.2 Monitor and adjust work practices to meet changing conditions. 4.3 Identify and report non-compliant work practices to appropriate personnel. 4.4 Identify improved work practices and recommend improvements to silvicultural operations.
5. Maintain records	5.1 Revise and update forest operational plan and organisational procedures as required. 5.2 Record and report silvicultural activities to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	<ul style="list-style-type: none"> determine forest growth in terms of number of trees per hectare, height, girth, basal area.
Oral communication skills	<ul style="list-style-type: none"> work effectively with others.

to:	
Reading skills to:	<ul style="list-style-type: none"> interpret regulatory requirements and workplace documentation.
Planning and organising skills to:	<ul style="list-style-type: none"> identify work requirements in line with site conditions analyse data and requirements to plan effective operations.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3255 Apply silvicultural principles Release 2	FPICOT3255 Apply silvicultural principles Release 1	Minor typographical errors corrected	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>