



Australian Government

FWPCOT3258 Comply with soil and water protection

Release: 1

FWPCOT3258 Comply with soil and water protection

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3258 Comply with soil and water protection, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to protect soil, water and water catchments from erosion, sediment and other pollutants.

The unit applies to those who put in place erosion, sediment control and pollution prevention measures in a variety of work settings, including: a forest, horticultural, domestic, local council or emergency services environment.

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

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

Pre-requisite Unit

Nil

Competency Field

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>

ELEMENTS	PERFORMANCE CRITERIA
1. Prepare for work	1.1 Identify and review organisational and legal requirements relevant to soil and water protection for various forest types. 1.2 Identify and interpret key principles and requirements that apply to erosion mitigation, sediment and other pollutant control, surface/ground water protection and catchment. 1.3 Identify and review operations plan and clarify work requirements with appropriate personnel.
2. Conduct erosion and other pollutant control measures	2.1 Identify soil erodibility, adverse weather, environmental features and other factors likely to influence soil and water protection measures. 2.2 Select and use materials, equipment and machinery in line with regulatory requirements. 2.3 Apply erosion, sediment and other pollution control measures in line with forest operational plans. 2.4 Identify situations requiring specialist advice and seek assistance.
3. Monitor work practices	3.1 Monitor and adjust work practices to meet changing conditions. 3.2 Monitor and maintain erosion, sediment and other pollutant control measures in line with organisational requirements. 3.3 Identify and report non-compliant work practices to appropriate personnel. 3.4 Identify improved work practices and make recommendations for improved work.
4. Maintain records	4.1 Revise and update forest operational plan and organisational procedures as required. 4.2 Document and report work activities.

Foundation Skills

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

Reading skills to:	interpret regulatory requirements and workplace documentation.
Oral communication skills to:	work effectively with others to improve work practices.

Problem solving skills to:	• identify problems and faults and rectify.
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Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3258 Comply with soil and water protection

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for FWPCOT3258 Comply with soil and water protection

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1	Replaces equivalent unit FPICOT3258 Comply with soil and water protection, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- effectively comply with soil and water protection requirements
- following regulatory or local government ordinance requirements, codes of practice, WHS and environmental policies for the protection of soil, water and water catchments
- follow organisational policies and procedures, relevant to the protection of soil, water and water catchments
- implement effective erosion mitigation, sediment and pollutant control, surface and ground water protection measures
- monitor and maintain erosion mitigation and sediment control processes and water catchment protection measures
- use effective communication and safe work practices
- identifying and reporting non-compliant work practices
- complete relevant workplace documentation.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- regulations, standards, codes of practice and established safe practices for soil and water protection procedures, including the following

- applicable regulations from all levels of government that affect forest operations in relation to soil and water protection including:
 - regional forest agreements
 - relevant codes of practice
 - forest operational plans
- organisational and site standards, requirements, policies and procedures relevant to soil and water protection
- techniques and measures relevant to erosion mitigation including the majority of the following:
 - walk-over techniques
 - minimal disturbance techniques
 - crown and cross fall drainage
 - cross bank drainage
 - relief culverts on roads
 - mitre and table drains on roads
 - armouring/gravelling of roads
 - crossing and draining surfaces
 - batter stabilisation
 - contour banks and channels
 - gabions
 - sediment basins
 - riparian buffer zones
 - outlet protection structures
 - revegetation
- factors that are likely to influence soil and water protection measures including:
 - track and road maintenance
 - drainage structures
 - setting of contour lines
 - slope measurement techniques
 - boundaries and survey markers
 - site preparation techniques
 - site cultivation techniques
 - disposal of logging waste materials
 - windrowing placement and techniques
 - tree selection and felling techniques
 - log dump locations and techniques
 - log extraction and haulage techniques
 - clearing techniques
- environmental features that can be adversely effected if soil erosion occurs, or if inundated with sediment of other pollutants including the majority of the following:

- trees, understorey and other vegetation
- drainage lines and drainage depressions
- water course, creeks and rivers
- lakes, swamps and wetlands
- aquatic species
- steep slopes
- caves
- historic and cultural heritage sites
- road and water supply infrastructure
- Other pollution control measures including:
 - fuel containment barriers
 - chemical spillage barriers
 - containment and removal of waste, including rubbish litter and human waste
- risks and hazard identification relevant to soil and water protection
- established communication channels and protocols
- procedures for recording and reporting workplace information.

Assessment Conditions

The following resources must be made available:

- forest operations site
- workplace requirements and site standards for complying with soil and water protection principles.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

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