



Australian Government

FWPCOT3314 Comply with soil and water protection

Release: 1

FWPCOT3314 Comply with soil and water protection

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to carry out soil erosion and sediment control works and pollution prevention measures in forestry operations and other work environments.

The unit applies to individuals who work as forestry technicians, nursery technicians, forestry operations supervisors, tree planters, silviculturists, arboriculture technicians and mobile equipment operators to implement erosion, sediment control and pollution prevention measures in a variety of work settings, including in forest, horticultural, domestic, local council and emergency services environments.

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

Common Technical (COT)

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. Prepare for work	1.1 Determine soil and water protection requirements for the work from work order or instruction and, where required, seek clarification

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	from appropriate personnel 1.2 Identify, assess and take actions to mitigate safety risks and hazards associated with soil and water protection operations 1.3 Identify and report existing and potential environmental risks and hazards to relevant personnel 1.4 Consult and maintain communication with team members and other appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.5 Select tools, equipment and machinery needed for the work, and check for correct operation and safety
2. Conduct erosion and other pollutant control measures	2.1 Identify soil characteristics, weather conditions, environmental features and other factors likely to influence soil and water protection measures 2.2 Apply erosion, sediment and other pollution control measures when conducting the work according to forest operational plans 2.3 Identify situations requiring specialist advice, and seek assistance 2.4 Document and report work activities according to workplace procedures
3. Monitor work practices that impact on soil and water conditions	3.1 Monitor and make recommendations to adjust work practices to meet changing soil and water conditions 3.2 Monitor and maintain soil erosion and sediment control works and pollution prevention measures according to workplace requirements 3.3 Identify and report work practices that are non-compliant with soil and water protection requirements to appropriate personnel 3.4 Identify and make recommendations on ways of improving work practices to enhance soil and water protection 3.5 Make recommendations for updating forest operational plan and workplace procedures to enhance soil and water protection as required

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	Interpret workplace documentation, including legislation, codes of practice and reports to determine requirements
Writing	Use technical and workplace specific vocabulary to accurately and legibly complete workplace records and forms for soil and water protection operations
Oral communication	Select and use appropriate spoken communication strategies with work colleagues and other personnel on site
Numeracy	- Complete routine calculations to report on location and dimensions of soil and water protection operations - Interpret graphical information on soil and water conditions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3314 Comply with soil and water protection	FWPCOT3258 Comply with soil and water protection	Clarified Application Updated and added new Performance Criteria Deleted Element and incorporated its Performance Criteria Updated Foundation Skills, Performance Evidence and Assessment Conditions	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 FWPCOT3314 Comply with soil and water protection

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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:

- implemented either a soil or a water protection procedure in an operational work setting on one occasion
- followed workplace policies and procedures, current legislation, regulations and related industry standards and codes of practice applicable to soil and water protection operations
- monitored work practices in one operational work setting for consistency with soil and water protection requirements and made at least one recommendation on ways of improving work practices to enhance soil and water protection.

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:

- regulations, standards, codes of practice and established safe practices for soil and water protection procedures
- applicable regulations from all levels of government that affect operations in relation to soil and water protection:
 - regional agreements
 - relevant codes of practice
 - operational plans
- workplace standards, requirements, policies and procedures relevant to soil and water protection
- techniques and measures relevant to erosion mitigation:
 - 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:
 - 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
 - soil types
- environmental features that can be adversely affected if soil erosion occurs, or if inundated with sediment of other pollutants:
 - 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:
 - fuel containment barriers

- chemical spillage barriers
- containment and removal of work waste, rubbish litter and human waste
- risks and hazard identification relevant to soil and water protection
- established communication channels and protocols for compliance with soil and water protection
- procedures for recording and reporting workplace information related to soil and water protection activities.

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 the workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - tools, equipment and machinery required for soil and water protection operations
 - personal protective equipment used in soil and water protection operations
 - communication system
- specifications:
 - access to workplace policies and procedures applicable to soil and water protection operations
 - access to operational plans
 - access to access to workplace procedures and forms for recording soil and water protection activities.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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