



Australian Government

FWPFGM4208 Plan a quarry

Release: 1

FWPFGM4208 Plan a quarry

Modification History

Release	Comment
1	Replaces equivalent unit FPIFGM4208B Plan a quarry, 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 locate the site, and gain approval for a quarry (borrow pit) operation for the purpose of sourcing material for the construction and maintenance of forest roads and tracks. It also includes developing and implementing a plan to establish a quarry.

The unit applies to job roles including Arboriculture Supervisor, Farm Forestry Supervisor, Forestry Supervisor, Forestry Operations Supervisor, Harvesting Supervisor, Harvesting Team Leader, Propagation and Stand Health Supervisor and Tree Farm Supervisor.

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

Elements and 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. Plan for quarry operation	1.1 Review need for quarry operation. 1.2 Consult with relevant parties about land tenure and plans for possible sites for the quarry. 1.3 Inspect proposed locations for quarry and visually assess for suitability and quantity and quality of material for end use.

	1.4 Analyse samples of materials and test for suitability. 1.5 Identify environmental protection measures of site and any regulatory or zoning issues. 1.6 Conduct a cost-benefit analysis for the viability and lifespan of the proposed quarry site. 1.7 Prepare a quarry management plan with reference to site procedures.
2. Implement a quarry operation plan	2.1 Obtain necessary licences or permits for quarry development. 2.2 Select quantities required and methods of extracting material with reference to the quarry management plan. 2.3 Coordinate and schedule people, materials and equipment for quarry development. 2.4 Liaise with colleagues about other information, work plans, road maintenance or construction plans and ensure a coordinated approach. 2.5 Document activities according to organisational procedures.
3. Monitor and review quarry planning	3.1 Check compliance with environmental protection measures, WHS requirements, quality requirements. 3.2 Review outputs of quarry against plan. 3.3 Identify areas for improvement in establishment and operation of quarry. 3.4 Record and report on outcomes 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:	- Calculate quantities of material that can be extracted from a given area - Calculate time for tasks
Oral communication skills to:	Coordinate and direct the work of others.
Planning and organising skills to:	- Schedule activities and sequence tasks - Establish timelines

Range of Conditions

Not Applicable

Unit Mapping Information

FPIFGM4208B Plan a quarry

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 FWPFGM4208 Plan a quarry

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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:

- follow organisational policies and procedures relevant to planning a quarry
- review sites and determine best site for the establishment of a quarry
- review the quality of material that a quarry will yield
- calculate the quantity of material that a quarry will yield
- safely and efficiently coordinate people, resources and equipment for the establishment of a quarry
- identify methods of improvement for the establishment of a quarry
- record and report on the outcomes of the establishment of a quarry.

Knowledge Evidence

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

- organisational procedures for planning a quarry
- quarrying operations
- properties of quarry materials and their suitability for end use
- materials required for road construction, road maintenance, track rehabilitation and snig tracks and landings
- planning and sequencing quarrying tasks and activities
- environmental risks and hazards associated with quarrying
- methods of extraction from quarries: with plant and equipment and using blasting methods
- project planning including task breakdown

- recording and reporting

Assessment Conditions

The following resources must be made available:

- organisational policies and procedures relevant to planning a quarry
- documentation related to quarry planning and permits
- relevant personnel and parties for the purposes of communication and consultation
- PPE suitable to plan a quarry

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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