

PIL505A Plan the implementation of a permaculture project

This unit covers the process of planning the implementation of a permaculture project.

It requires the ability to evaluate and assess project, determine project tasks and associated timelines, assess resource requirements, develop project budget and document the plan.

Planning the implementation of a permaculture project requires knowledge of permaculture principles and practices, data collection methods, qualitative and quantitative analysis techniques, methods for analysing and evaluating information, presenting information and community consultation.

Element	Performance Criteria
1. Evaluate and assess a potential permaculture project	1.1 Project definition is undertaken as required and the results are analysed to determine the scope of the project 1.2 A site evaluation is undertaken or organised and all barriers to the project are identified. 1.3 Equipment/system needs are identified and availability assessed. 1.4 Project is initiated in accordance with permaculture principles and in consultation with stakeholders
2. Determine project tasks and associated timelines	2.1 Overall project is broken down into tasks and a work breakdown structure is developed. 2.2 All tasks associated with the project are identified and detailed. 2.3 The relationship between tasks is identified and a logical networking of tasks is developed. 2.4 Critical paths are identified and planned. 2.5 Timeframes associated with each aspect of the project are identified. 2.6 Resource needs are identified and built into the plan. 2.7 Necessary planning approvals are obtained and/or organised. 2.8 Plan is documented in a manner which facilitates ease of management of the project. 2.9 Quality plans incorporating flow process charts are developed as appropriate. 2.10 Plan is verified with all appropriate personnel

		including the client or stakeholders where appropriate.
	2.11	Contingency plans are developed to account for delays or other problems experienced during the project.
	2.12	Modifications to the plan are recognised and instituted within accepted timeframes.
3.	Assess resource requirements	3.1 Project scope and objectives are analysed to determine the tasks to achieve agreed outcomes on time and within budget
		3.2 Project resources, equipment and infrastructure are identified
		3.3 Material requirements are established.
		3.4 Allowance for contingencies is catered for.
		3.5 Roles and responsibilities of team members and stakeholders are identified and agreed
4.	Develop project budget	4.1 A detailed financial statement showing costs associated with each task/phase of the project is prepared
		4.2 A project budget is prepared and submitted for approval to client/community group
		4.3 Expenditure approval procedures are developed and agreed with client/community group
5	Document plan	5.1 Tasks are fully documented within the plan along with timeframes and resource requirements.
		5.2 Processes for monitoring, evaluating and reporting performance against objectives are detailed in the plan
		5.3 Plans, drawings, specifications and other relevant documents including amendments to original plans and designs are prepared.
		5.4 All parties associated with the project are identified and their particular roles fully documented.
		5.5 A project management meeting with all parties associated with the project is organised.

Range of Variables

The Range of Variables defines the different contexts, work environments and parameters governing the performance of this competency standard. The variables chosen in training and assessment will need to reflect local industry and regional contexts.

What may be included under project definition?	Project definition may include interpretation and assessment of previous plans and/or proposed designs.
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What permaculture projects	Permaculture projects may include community
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may be relevant to this standard?	development projects, domestic and commercial projects for private clients, land restoration, educational and eco-tourism projects, social and economic development programs.
Where is information on permaculture principles available from?	Permaculture principles are outlined in the following publications: <ul style="list-style-type: none"> • Mollison, B. 1988, <i>Permaculture: A Designers' Manual</i> Tagari Publications • Holmgren, D. 2002 <i>Permaculture: Principles and Pathways Beyond Sustainability</i>, Holmgren Design Services
What stakeholders may be involved in a permaculture project?	Stakeholders may include community groups, private landholders and developers, relevant interest groups and government agencies

Evidence Guide

What evidence is required to demonstrate competence for this standard as a whole?

Competence in this unit requires evidence that a plan for the implementation of a permaculture project has been developed and is consistent with best practice project planning and permaculture principles. The skills and knowledge required to plan for the implementation of a permaculture project must be **transferable** to a range of work situations including different communities, projects and bioregions.

What specific knowledge is needed to achieve the performance criteria?

Knowledge and understanding are essential to apply this standard in the workplace, to transfer the skills to other contexts and to deal with unplanned events. The knowledge requirements for this unit are listed below:

- Permaculture principles and practices
- Data collection methods
- Qualitative and quantitative analysis techniques
- Methods for analysing and evaluating information
- Presenting information
- Community consultation

What specific skills are needed to achieve the performance criteria?

To achieve the performance criteria, some complementary skills are required. These skills are:

- Evaluate and assess project
- Determine project tasks and associated timelines
- Assess resource requirements
- Develop project budget

- Document plan

What processes should be applied to this competency standard?

There are a number of processes that are learnt throughout work and life, which are required in all jobs. They are fundamental processes and generally transferable to other work functions. Some of these are covered by the **key competencies**, although others may be added. The questions below highlight how these processes are applied in this competency standard. Following each question a number in brackets indicates the level to which the key competency needs to be demonstrated where 0 = not required, 1 = perform the process, 2 = perform and administer the process and 3 = perform, administer and design the process.

1. How can communication of ideas and information () be applied?	Through preparation, analysis, evaluation and reporting or forecasts, trends and recommendations, and business correspondence
2. How can information be collected, analysed and organised () ?	By gathering and assessing relevant information for inclusion in the plan
3. How are activities planned and organised () ?	Through observance of the project planning process.
4. How can team work () be applied?	Through consultation in development of implementation plan
5. How can the use of mathematical ideas and techniques () be applied?	Through inclusion of financial information in implementation plan
6. How can problem-solving skills () be applied?	By making adjustments to implementation plan as circumstances change.
7. How can the use of technology () be applied?	Through use of management and accounting systems

Are there other competency standards that could be assessed with this one?

This competency standard could be assessed on its own or in combination with other competencies relevant to the job function.

For information about assessing this competency standard for consistent performance and where and how it may be assessed, refer to the **Permaculture International Ltd Course Documentation**.
