

# Level 4 Permaculture Unit Summaries

## 12 Units of study.

### **PPP01B Provide advice on permaculture principles and practices**

This competency standard covers the process of providing advice on permaculture principles and practices. It requires knowledge of permaculture principles, practices and strategies, innovation and appropriate practices in plant and animal management and customer service and communication skills. Providing advice on permaculture principles and practices requires the ability to identify client preferences and requirements for information, and provide information on permaculture principles, practices and strategies

### **DES02B Design a rural permaculture system**

This competency standard covers the process of designing a rural permaculture system. It requires the ability to negotiate with clients to develop a permaculture design brief, provide design solutions, select plants and animals and overseeing site development. It requires knowledge of permaculture systems, permaculture plants and animals used in rural permaculture systems and soil preparation.

### **DES03B Design an urban permaculture system**

This competency standard covers the process of designing an urban permaculture system. It requires the ability to negotiate with clients to develop a permaculture design brief, provide design solutions, select plants and animals and overseeing site development. It requires knowledge of permaculture systems, permaculture plants and animals used in permaculture systems and soil preparation.

### **BUI04B Plan for the implementation of permaculture work**

This competency standard covers the planning and preparation required to implement permaculture works. Planning will involve liaison with the client/project manager, use of contract documents and specifications of works, complying with statutory obligation and responsibilities, preparation of a program of works to ensure sequential allocation of resources, and efficient use of contractors. Planning the implementation of permaculture works requires a broad range of skills and requires the application of horticultural, natural science and environmental skills. Additionally, costing, estimating and basic budgeting skills will be needed. Planning is likely to be undertaken with minimal guidance and requires responsibility for the management of timelines, and the purchasing and ordering of materials to meet contract requirements and sequences of tasks.

### **BUI05B Select appropriate technologies for a permaculture system**

This unit covers the process of identification of new and appropriate technologies and the evaluation of their suitability to a permaculture situation. It requires knowledge of types of appropriate technology systems commonly available and applied to the design of energy conscious houses, farms and offices, the benefits from combining a number of different appropriate technologies and the limitations of each different technology, and design of systems using appropriate technologies.

### **BIO06B Identify and analyse bioregional characteristics and resources**

This competency standard covers the process of researching, extracting and providing information on bioregional characteristics and resources. It requires the ability to process a request for information on bioregional characteristics and resources, identify information sources, organise self or others, ensure information meets request, prepare and finalise reports. Researching, extracting and providing information on bioregional characteristics and resources requires knowledge of bioregional issues, relevant bioregional issues, types of information sources, methods and means of accessing data and means of validating information.

**RES07B Design harvesting and storage systems for permaculture products**

This competency standard covers the process of design of harvesting and storage systems for products to meet year round needs. It requires the ability to determine harvesting and storage system requirements, identify requirements for maintaining optimum condition of permaculture products and prepare harvesting and storage plan. Design of harvesting and storage systems for permaculture products requires knowledge of permaculture products commonly harvested and stored, post-harvest treatment and preparation techniques, preservation methods for permaculture products, design of storage areas, developing planting and harvesting schedules for permaculture products and preparing plans and reports.

**IPA08B Implement and monitor animal health and welfare programs for a permaculture system**

This competency standard covers the process of implementing and monitoring animal health and welfare programs for a permaculture system. It requires the ability to provide information to the work group about animal welfare, facilitate the participation of others in complying with animal health and welfare guidelines, implement and monitor enterprise programs for animal care, deal with animal emergencies and maintain animal health records. Implementing and monitoring animal care programs for a permaculture system requires knowledge of animal health and welfare, and relevant animal welfare legislation and codes of practice.

**RES09B Manage a permaculture seed bank**

This unit covers the process of managing a permaculture seed bank. It requires the ability to plan seed collection, implement seed collection and maintain a seed collection in storage. Managing a permaculture seed bank requires knowledge of plant biology, handling and extraction of seed, treatment and documentation, collecting ethics, protocols and legislative parameters and storage techniques.

**COM10B Recommend approaches for sustainable community and bioregional development**

This unit focuses on the ability to identify potential for sustainable community and bioregional development, develop processes to consult and to communicate with stakeholders. It requires knowledge about principles governing development, sources of relevant materials and verbal information and cultural protocols and perspectives.

**RTC4905A Cost a project**

This competency standard covers the process of obtaining, calculating, summarising and presenting the costs of materials, equipment and labour for a project to the best financial advantage of a rural, horticultural or land management enterprise.

**RTC4911A Operate within a budget framework**

This competency standard covers the process of operating within an allocated cash flow budget in a rural, horticultural or land management setting.