



Australian Government

AHCPHT511 Develop a horticultural production plan

Release: 1

AHCPHT511 Develop a horticultural production plan

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to develop a production plan, including carrying out planning activities, determining horticultural production requirements, scheduling production activities, planning monitoring of the production plan, and documenting the production plan and specifications for a horticultural workplace.

The unit applies to individuals who apply specialised skills and knowledge to the development of a horticultural production plan, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

All work must be carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements, and sustainability and biosecurity practices.

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

Pre-requisite Unit

Nil

Unit Sector

Production Horticulture (PHT)

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. Carry out planning activities	1.1 Determine client preferences and requirements for the production plan, and confirm according to workplace marketing strategy and

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	business plans 1.2 Assess the production site for growing environment factors, services and site modifications 1.3 Conduct research into the growing requirements of plant species and cultivars, and restrictions that may affect the production plan 1.4 Identify sustainable land use issues that may affect planned production 1.5 Set production targets that are consistent with the marketing strategy and business plan 1.6 Determine production requirements in terms of quantity, quality and availability of the product 1.7 Develop a draft plan that reflects client preferences and requirements
2. Determine the requirements of horticultural production	2.1 Identify plant species that are appropriate to the site and consistent with the plan 2.2 Calculate, cost and confirm availability and quantity required with the supplier 2.3 Select plant establishment procedures consistent with the agreed preliminary plan 2.4 Ensure design of the site includes irrigation and drainage systems, and takes into account the growing requirements of plants and sustainable land use practices 2.5 Document cultural management practices to achieve optimal growth environment from planting to harvest 2.6 Determine harvesting dates to meet market specifications and deadlines 2.7 Identify and cost resources, tools, equipment and machinery required for production and site establishment
3. Schedule production activities	3.1 Outline staged implementation and development of the crop production activities, including providing for future works access 3.2 Determine and document timelines for crop production activities, taking into account any other planning requirements 3.3 Plan and schedule marketing according to the production schedule and marketing strategy

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Plan monitoring of the production plan	4.1 Determine production activities to be monitored, the format for recording factors, frequency of monitoring and the thresholds for remedial action 4.2 Document required remedial or contingency plan for implementation by staff 4.3 Review on a regular basis the effectiveness of the monitoring system 4.4 Compare the production program with feedback and projections from clients 4.5 Implement remedial action or contingency plan where crop production falls outside client projections
5. Prepare and document the production plan and specifications	5.1 Prepare detailed plans, specifications and quotations based on horticultural conventions and the requirements of production 5.2 Develop and document detailed on-site procedures and schedules required for crop production

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	- Identify and interpret information regarding the production and growing requirements of plant species and cultivars, and restrictions - Identify and interpret client requirements, market specifications and marketing strategy
Writing	Document a horticultural production plan
Oral communication	Initiate discussions with client and suppliers, using clear language to plan and communicate horticultural production plan
Numeracy	- Access and analyse data for input to production plan and production schedule - Document harvesting dates and resource costs of production plan

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPHT511 Develop a horticultural production plan	AHCPHT502 Develop a horticultural production plan	Minor changes to application Major changes to performance criteria Foundation skills added Assessment requirements updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCPTH511 Develop a horticultural production plan

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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 developed a horticultural production plan on at least one occasion, and has:

- developed a horticultural production plan that reflects client preferences and requirements
- communicated and negotiated with the client and suppliers
- researched, evaluated and recorded relevant information, including site factors and land use issues
- selected and sourced plants or plant material for seeding or propagation
- calculated and documented the cost and logistical requirements of the production plan
- designed and incorporated infrastructure into planning
- planned and scheduled production activities
- planned and scheduled marketing
- developed a monitoring program to cover the horticultural operation from sowing to sale
- established product specifications
- documented plans, specifications and production work procedures.

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:

- principles and practices for developing a horticultural production plan:
 - advantages and limitations of sustainable horticulture systems
 - establishment and maintenance of a range of enterprise horticultural products in relation to client needs and the standards required by the marketplace
 - establishment procedures, plant selection and cultural practices for a range of enterprise horticultural products

- processes and techniques for preparing, costing and documenting plans for and scheduling horticultural production
- the role of business and marketing plans and client consultation processes in planning horticultural production.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - industry publications and internet sources of information relevant to the development of a horticultural production plan
 - marketing strategy
- specifications:
 - market specifications
- relationships:
 - client
- timeframes:
 - according to the job requirements.

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

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