Horticulture and Nursery Project

Nursery (NSY) Sector Units



Summary of Validation Feedback, Responses and Actions August 2020

This project includes the review three qualifications, the review and amalgamation of ten qualifications into five qualifications, the review of five skill sets and 67 units of competency, the development of one new unit of competency, the deletion of one qualification and one unit of competency within the Agriculture, Horticulture, Conservation and Land Management (AHC) Training Package. Draft materials were developed as a result of initial input from Subject Matter Experts (SMEs) and were made available for broader stakeholder consultation and feedback between 16 September and 31 October 2019. During this time feedback was received via email, through online surveys, as well as in person at workshops or site visits, and by telephone. Input was received from 44 stakeholders around Australia, including 12 industry employers/employees, 5 industry associations, 25 Registered Training Organisations, one from Government bodies such as Department of Training and Workforce Development and State Training Authorities, with the rest comprising of industry advisory organisations.

Validation meetings were held on 28 and 30 January 2020, and 19 February 2020 with Subject Matter Experts (SMEs), with representatives from:

- Industry SA, VIC, QLD
- Industry Association VIC
- RTO VIC

Further consultation meetings and feedback received

The Australian Industry Skills Committee (AISC) granted an extension of this project to incorporate a further review of the nursery units of competency listed in this report by a broader targeted group of SMEs. Several meetings were held in June and July with representatives from the Industry Reference Committee, nursery industry representatives and registered training organisations. A further series of validation and review meetings were held on 17, 22 and 23 July with SMEs, with feedback also received via email, with representatives from:

- Industry QLD
- Industry Association QLD
- RTO VIC, NSW

These units are available for feedback on the Skills Impact website, please note that these units have track changes turned on with both the changes and comments included from the validation and review meetings and feedback received via email. Of particular note is the following:

- Irrigation use, repair, etc have been removed from the AQF2 level units as it was felt that this should be covered at AQF3 and above
- The term 'hygiene' should this be replaced with 'biosecurity' throughout the nursery units there are comments in the units regarding this seeking feedback
- Should AHCNSY312 Prepare specialised plants have an additional element on dispatching

Visit the Skills Impact website to view a full list of the documents that were submitted for consultation during this phase.

Below is a summary of the issues raised for the draft nursery units of competency and skill sets developed and reviewed for the horticulture and nursery project, how these issues have been dealt with and comments seeking further feedback. This involves a consideration of the information provided, views of industry stakeholders and from people who are part of the Subject Matter Expert Working Group process. Resolutions are constructed to consider the needs and views of stakeholders to the extent possible, and to comply with the *Standards for Training Package 2012*. The resolutions may represent a compromise on one or more stakeholder views with the aim of a workable outcome for industry, State and Territory Training Authorities (STAs) and training providers.

Acronyms:

PC – performance criteria, PE – performance evidence, KE – knowledge evidence, AC – assessment conditions, SMEs – Subject Matter Experts, AQF – Australian Qualifications Framework

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Summary of validation feedback on units of competency

Revised units of competency

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution	
AHCNSY102 Support nursery work (formerly AHCNSY101 Support nursery work)			
RTO NSW	PC 2.1: needs to be more prescriptive. What specific tasks is industry expecting that person to perform?	Comment: Seeking industry SME feedback.	
Industry QLDIndustry Association QLD	PC 3.3: I'm not sure what this implies since stockpiles is not a term used. Maybe 'Handle surplus materials'	Adopted: Deleted element 3, included an additional PC in element 2. Remaining PC's from this element covered elsewhere in this unit.	
RTO VIC	Element 3: Think this element could be tidied up. I read it as having double-ups. Mainly 3.2 I don't understand. Should it be in element 4 as disposing of waste?		
Industry QLDIndustry Association QLD	PE, 4 th dot point: Not sure this is current terminology or processes, considering mechanisation or use of machinery.	Removed 'and stockpiled', see also change to element 3.	
AHCNSY205 Pot up plants			
(formerly AHCNSY201 Pot up	(formerly AHCNSY201 Pot up plants)		
Industry QLD	Comments regarding PC's as follows:	Comment: Seeking industry SME feedback, PC 1.4 & 3.4, Should	
 Industry Association QLD 	1.4 Work area should be cleaned at cessation of previous work activity so needs to re-enforced in part 3.3	this be 'biosecurity' rather than 'hygiene'. I.e. should hygiene be biosecurity throughout this unit and other units?	
	2.1 I'm not sure I would allow cert II to undertake this operation.	Adopted: Changed PC's to the following: "2.1 Prepare and grade plants for potting as directed"	

Stakeholder Comments and	Identified Issues	Consideration and Proposed Resolution
	2.4 If this includes inference to pre-emergent herbicides which it does there is no SmartTrain or Chemcert in the qualification to cover legalities here.	"2.4 Add fertilisers according to supervisor instructions"
	2.5 Not even sure what this means?	2.5, Comment: Seeking industry SME feedback, suggest changing 'hygiene' to 'biosecurity'.
	PE, 4 th dot point: Not sure a cert II would grade plants	Adopted: Changed to 'graded and potted up propagated plants as directed'
	KE, 2 nd dot point, 2 nd sub-point: Also pot selection wouldn't be a choice rather a direction as the container would be fit for purpose for the enterprise requirements.	Adopted: Removed 'for plant growth rate and physical characteristics'
	2 nd dot point, 5 th sub-point: no media units in core so assuming knowledge of properties is unrealistic.	Adopted: removed 'properties of relevant potting media'
RTO VIC	Change PC 1.2 from 'Identify' to 'Recognise'	Adopted: Changed PC 1.2 from 'Identify' to 'Recognise'
	KE, 2 nd dot point, 5 th sub-point: Would suggest "Physical" properties to define how much knowledge is needed - Not a big deal if people disagree.	Adopted: removed 'properties of relevant potting media'
RTO NSW	Element 2: Need to add - Select and measure quantity of media required for task.	Comment: Seeking industry SME feedback.
AHCNSY206 Care for nursery	y plants	
(formerly AHCNSY202 Care fo	r nursery plants)	
RTO VIC	Change PC 1.2 from 'Identify' to 'Recognise'	Adopted: Changed PC 1.2 from 'Identify' to 'Recognise'

Stakeholder Comments and	Identified Issues	Consideration and Proposed Resolution
Industry QLD Industry Association QLD	Element 2: No irrigation in core so can't assume knowledge of this activity other than incidental direction.	Adopted: Removed irrigation throughout unit (PC 2.1, 2.2 and 3.3). Removed element 2 in toto. PC 2.3 moved to new element 2, PC 2.1.
		New 2.1, Comment: Seeking industry SME feedback, suggest changing 'hygiene' to 'biosecurity'.
	Comments regarding PC's as follows:	Adopted: Changed PC's to the following:
	2.1 not sure this is a cert II function	2.1 removed in toto
	3.2 must comply with state regs regards chemical application to apply 'products' other than fertiliser	3.2, renumbered and changed to "2.2 Apply fertiliser according to instructions"
	3.3 As directed, rather than an assessment of need to or method of application?	3.3 removed in toto
	Comments regarding PE as follows:	Adopted: changed PE as follows:
	3 rd and 4 th dot point: Not sure they would have access of this function considering increasing technology of controllers other than manually activating a valve which doesn't check programming.	Removed irrigation throughout unit, removed 3 rd and 4 th dot point.
	5 th dot point: See comment regarding hygiene/biosecurity.	Comment: Seeking industry SME feedback, suggest changing 'hygiene' to 'biosecurity'.
	7 th dot point: Also not in core units so may not selection PGM202	Removed 7 th dot point and added 'problems' to last dot point.
	Comments regarding KE as follows:	Adopted: changed KE sub-bullet points to the following:
	2 nd dot point, 1 st sub-point: Not in core	"basic plant knowledge as it applies to maintaining nursery plants"
	2 nd dot point, 2 nd sub-point: elective that may not be selected PGM202	"common problems that may occur with containerised plants in a growing environment"
		Removed 3 rd sub-point

Identified Issues	Consideration and Proposed Resolution
2 nd dot point, 3 rd sub-point: Not covered in core or base electives	Removed irrigation throughout unit, removed 5 th sub-point.
Element 2: Add PC – Clean and prepare beds for potted plants	Comments: Seeking SME advice regarding adding a PC 'Clean and prepare beds for potted plants' into Element 2 Maintain nursery plants.
agation activities	
ake propagation activities)	
General Comment: Opinions on whether it is clear enough about their involvement with any propagation media and safe handling throughout the unit?	Comments: Comments noted and discussed, see changes made throughout unit.
Change PC 1.2 from 'Identify' to 'Recognise'	Adopted: Changed PC 1.2 from 'Identify' to 'Recognise'
Comments regarding PE 2 nd bullet point: Already have workplace instructions	Adopted: Changed 2 nd bullet point to "prepared for plant propagation activities according to workplace instructions and procedures"
Element 2: Add "Select propagation media for method"	Comments: Seeking SME advice regarding adding PC to Element 2: "Select propagation media for method".
Comments regarding PC's as follows: 1.6 Seed would be selected rather than collected assuming it is already collected and stored ready for use. 2.1 Is this disinfestation of material or scarification of seed as it would be at 2.3	Adopted: changed PC's to the following: "1.6 'Organise propagation material for use as directed" Kept "2.1 Assist with applying pre-treatment appropriate to the propagation method" "2.3 Handle prepared propagation material in a way that minimises
	Element 2: Add PC – Clean and prepare beds for potted plants agation activities ake propagation activities) General Comment: Opinions on whether it is clear enough about their involvement with any propagation media and safe handling throughout the unit? Change PC 1.2 from 'Identify' to 'Recognise' Comments regarding PE 2 nd bullet point: Already have workplace instructions Element 2: Add "Select propagation media for method" Comments regarding PC's as follows: 1.6 Seed would be selected rather than collected assuming it is already collected and stored ready for use. 2.1 Is this disinfestation of material or scarification of seed

Stakeholder Comments and I	dentified Issues	Consideration and Proposed Resolution
		New PC "2.4 Insert prepared material in the propagation receptacle according to supervisor instructions"
	2.5 Sequencing of application depending on seed or vegetative as seed is post stick &treated cuttings should be stuck into fully wet up trays to minimise hormones being washed off the cutting.	Discussed, keep as sequenced, changed to: "2.5 Maintain propagated plants according to supervisor instructions"
	Nutrient is likely in the media already or not required such as in certain seed propagation into bulk trays not sure Lvl II would be applying nutrient.	
	Comments regarding PE as follows:	Adopted: changed PE to the following:
	Second paragraph: Direct Do we need to be more specific here regarding the types of techniques as has been prescribed in LvI III	Changed second paragraph to: There must be evidence that the individual has undertaken propagation activities on at least three occasions, including both seed and vegetative techniques and has:
	10 th dot point: Still not sure a lvl II would be doing this if there is no mention of preparing trays etc at this level & its ability to impact on propagation success	Changed 10 th dot point to: "applied water and treatments according to supervisor instructions"
	Comments regarding KE as follows:	Adopted: changed KE bullet points to the following:
	2 nd dot point, 1 st sub-point: Basic in what way, seed germination requirements and production of adventitious	Changed 2 nd dot point, 1 st sub-point to: "basic plant knowledge as it applies to propagation"
	roots from callus 2 nd dot point, 3 rd sub-point: Change from "hygiene" to "hygiene and biosecurity"	Changed 2 nd dot point, 3 rd sub-point to: "workplace hygiene and biosecurity" Changed 2 nd dot point, 7 th sub-point to: "basic seed and vegetative
	2 nd dot point, 7 th sub-point: Do they need to know or is it more applied to a range of plant species as this is also detailed knowledge?	propagation techniques, including use of mechanisation"

Stakeholder Comments and	d Identified Issues	Consideration and Proposed Resolution
	Comments regarding AC , Resources, equipment and materials, 1 st sub-point as follows:	Adopted: changed AC, Resources, equipment and materials, 1 st sub-point to the following:
	"material" - Is this propagation material or other propagation related materials buckets tubs etc for collection and treatment and where are pots/ media OR propagation "cell' or container? Since nutrients rate a mention. "pre-treatments" - Does this mean hormones or chlorine disinfestation 'chemicals' etc? Are there any restrictions due to APVMA requirements? "nutrients" - I would expect that nutrients would be already incorporated into the media as there is no mention of preparing any trays or containers to	"propagation tools, containers, equipment and machinery" and separate bullet point "seed and vegetative propagation material, growing media and treatments"
AHCNSY208 Maintain indo	or plants	
(formerly AHCNSY204 Maint		
RTO VIC	Change PC 1.1 from 'identifying' to 'recognising'	Adopted: Changed PC 1.1 from 'identifying' to 'recognising'
	Comment RE PE 8 th bullet point: Refer p.criteria 3.3 Think we discussed that they may only be hand watering. Is this wording correct considering?	Comments: Comment discussed at SME meeting, however feedback received identified keeping this PE.
	Comment RE KE 2 nd bullet point, sub-bullet points: I believe the list below is very ambitious for Cert II - they are working under instruction and generally supervision. I will cross out the points I am referring to.	Adopted: removed KE 2 nd bullet point, 3 rd and 7 th sub-bullet points. Changed last sub-bullet point to the following: "methods used for watering indoor plants and displays".
Industry QLD	Comments regarding PC's as follows:	Adopted: changed PC's to the following: "2.3 Check that growing media is fit for purpose"

ceholder Comments and	Identified Issues	Consideration and Proposed Resolution
 Industry Association QLD 	2.3 Is this duplicated in 3.3 or should this be in section 3 as the media is a 'part' of the plant installation not the environment	
	2.4 Should this be 'hygiene' or 'biosecurity' or both.	2.4, Comment: Seeking industry SME feedback, should this be 'hygiene' or 'biosecurity' or both.
	3.1 Apply treatments? As in 3.2	"3.1 Recognise common problems in indoor plants, and report to supervisor"
	3.2 Is a slight duplication of 3.1 TBH otherwise change to just address aesthetics	"3.2 Apply treatments to optimise plant health and appearance as directed"
	3.3 Should be determine if needs water application and the is this a LvI II?	"3.3 Apply water where required, in quantity and method as directed
	Comments regarding PE as follows:	Adopted: changed PE as follows:
	4 th dot point: Not sure what this is as the environment is usually maintained for staff in an office or public space so there is negligible maintenance or ability to modify the environment, rather selection and changing of plants as required in such environments to maintain aesthetic and plant health for possible rejuvenation.	Changed 4 th dot point to: "monitored indoor plant environment"
	Comments regarding KE as follows:	Adopted: changed KE as follows:
	2 nd dot point, 3 rd sub-point: Not sure recognise plants in core can deliver this in its current format.	Removed 2 nd dot point, 3 rd sub-point (duplicated in other sub-dot points below)
	2 nd dot point, 6 th sub-point: Also quite broad so' common' covers a massive range or parameters from rainforest understory to desert / arid zones	Comments: Agreed, the delivery of this knowledge evidence will need to be contextualised depending on where/when the unit is being delivered. i.e. may be different in NT to SA, etc and the selection/types of plants may be different depending on what is 'in vogue' at the time of delivering the unit.

Stakeholder Comments and	Identified Issues	Consideration and Proposed Resolution
	2 nd dot point, 7 th sub-point: See comment above	Removed 2 nd dot point, 7 th sub-point
	2 nd dot point, 9 th sub-point: Also not supported by the qualification & they're not commonly used with indoor plants in my experience.	Changed 2 nd dot point, 9 th sub-point: "methods used for watering indoor plants and displays"
RTO NSW	PC 2.3, Remove, covered in 3.	Comments: Changed to "Check that growing media is fit for purpose"
AHCNSY308 Maintain nurse		
(formerly AHCNSY301 Mainta	ain nursery plants)	
 RTO VIC 	Comments regarding PC 2.3: My opinion for this unit they	Adopted: changed PC 2.3 to the following:
	should only be doing basics of cleaning emitters, flushing lines etc. Leave the repairs for the irrigation units, or they could report repairs.	"Check and operate irrigation system components according to manufacturers specifications and layout design"
Industry QLD	Comments regarding PC's as follows:	Adapted changed DC's to the following:
	Confinents regarding FC s as follows.	Adopted: changed PC's to the following:
 Industry Association QLD 	1.5 What does this mean i.e. no actual guidelines so what are we referring to?	"Follow biosecurity practices applicable to maintaining plants"
	1.5 What does this mean i.e. no actual guidelines so what	
	1.5 What does this mean i.e. no actual guidelines so what are we referring to?2.3 Ensure operation within manufacturers guidelines /	"Follow biosecurity practices applicable to maintaining plants" "Check and operate irrigation system components according to
	 1.5 What does this mean i.e. no actual guidelines so what are we referring to? 2.3 Ensure operation within manufacturers guidelines / layout requirement 3.3 Quite high level to monitor and report plant water requirements as opposed to applying water thru some 	"Follow biosecurity practices applicable to maintaining plants" "Check and operate irrigation system components according to manufacturers specifications and layout design"

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
Industry QLD	Comments regarding KE as follows:	Adopted: changed KE as follows:
 Industry Association QLD 	2 nd dot point, 2 nd sub-point: How does this pertain to Maintain Nursery Plants as its post potting Critical knowledge but not in regards to this UoC	Removed 2 nd dot point, 2 nd sub-point
	2 nd dot point, 9 th sub-point: How do you get a knowledge of a range in certain nurseries. Some only have 1 or 2 which isn't a range	"principles and operations of irrigation systems used in nurseries"
	3 rd dot point: Do these actually exist?	"irrigation system manufacturer specifications and layout design"
	Comments regarding AC , Resources, equipment and materials, as follows:	Adopted: changed AC, Resources, equipment and materials to the following:
	1 st sub-point: 'plants', As in??	1 st sub-point discussed, leave 'plants'
	3 rd sub-point: 'equipment', components	"irrigation system, tools and components"
	Comments regarding AC , Specifications, 3 rd sub-point as follows: 'operation and maintenance manual', What is this I've never really seen one	Adopted: changed AC, Specifications, 3 rd sub-point to the following: "irrigation system manufacturer specifications and layout design"
AHCNSY309 Receive and dis	spatch nursery products	
(formerly AHCNSY302 Receiv	e and dispatch nursery products)	
RTO VIC	Comments regarding PC 2.4 I would suggest that 2.3 is enough. Remove 2.4.	Adopted: comment discussed, changed PC 2.4 to the following: "Check inventory quantity of nursery stock available for sale"

Stakeholder Comments and	Identified Issues	Consideration and Proposed Resolution
	Comments regarding PE as follows:	Adopted: changed PE as follows:
	6 th dot point: Check wording if element 2 is altered.	Removed 6 th dot point
Industry QLD	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
 Industry Association QLD 	1.4 add Confirm 'with supervisor or workplace procedures'etc	"1.4 Confirm with supervisor or workplace procedures, the product quarantine requirements prior to dispatch"
	2.1 See previous qual Deliver & promote sales of plants as this is an overlap	Reviewed AHCNSY311 with AHCNSY309 to address overlap, PC 2.1 ok now as is.
	2.4 See previous comment & Previous qual Deliver & Promote sales	"2.4 Check inventory quantity of nursery stock available for sale"
	Comments regarding KE as follows:	Adopted: changed KE as follows:
	2 nd dot point, 1 st sub-point: change best practice guidelines to workplace hygiene practices and procedures	"workplace hygiene practices and procedures"
	2 nd dot point, 5 th sub-point: change 'quarantine legislation' to 'biosecurity legislation'	"quarantine policies and relevant biosecurity legislation"
RTO NSW	Comments regarding Element 4: Check product specifications against order	Comments: Seeking SME advice regarding changing Element 4 to: "Check product specifications against order"
AHCNSY310 Install and main	ntain plant displays	
(formerly AHCNSY303 Install	and maintain plant displays)	
RTO VIC	Comments regarding unit: No huge concerns in this unit. Feel it does lean more toward exhibition displays or commercial leasing/hiring displays. In reality it would be	Comments: Comment noted, see changes made to unit content.

Stakeholder Comments and	Identified Issues	Consideration and Proposed Resolution
	used more as visual merchandising for retail nurseries - Keep this in mind if making changes.	
Industry QLDIndustry Association QLD	Comments regarding Application as follows: Paragraph 1: IN regards to the plan or to develop a plan when comparing to paragraph 2	Adopted: changed Application as follows: Added "document plant display plan"
	Paragraph 2: At odds with 1.4 & 1.6	Comments: This paragraph explains AQF level related to the unit.
	Comments regarding Elements as follows:	Adopted: changed Elements as follows:
	Element 1: Develop site plan in consultation with the client	"Assess client requirements and document plant display plan"
	Element 2: planted display is a landscape in most cases not a plant display per say	"Install plant display"
	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	Add a new PC 1.1 'Consult with client and determine requirements' and renumber PC's that follow	"1.1 Consult with client and determine requirements"
	1.2 'Assess and record siteetc'	"1.2 Assess and record environmental conditions prior to installation"
	1.4 Develop plan or do since it's under broad supervision	1.4 leave as is
	1.7 Move PC 3.6 to here	"1.7 Determine the benefit of reviving or replacing plants"
	1.8 Is this the PLAN!!!	1.8 leave as is
	2.3 Where's plan?	2.3 see changes made to element 1, leave as is
	3.6 This is a consideration at the conception of the PLAN!!! As it significantly effects costs & profitability	3.6 moved to 1.7

Stakeholder Comments and	Identified Issues	Consideration and Proposed Resolution
	Comments regarding PE as follows:	Adopted: changed PE as follows:
	1 st dot point: add new dot point 'consulted with clients to determine requirements'	Added new 1 st dot point "consulted with clients to determine requirements"
	4 th dot point: 'selected' spelling, 'chosen' required or just site.	4 th dot point, selected is correct (past tense) removed 'chosen' – "selected plants that meet the requirements of the display and site"
RTO NSW	Comments regarding PC 2.4: could be replace with Implement plant intervention requirements to ensure quality presentation	Comments: Seeking SME advice regarding changing PC 2.4 to: "Implement plant intervention requirements to ensure quality presentation"
	Comments regarding Element 3: Rotate stock to maximise presentation	Comments: Seeking SME advice regarding changing Element 3 to: "Rotate stock to maximise presentation"
(formerly AHCNSY304 Deliver	and promote sales of plants)	
RTO VIC	Comments regarding unit: No issues stand out to me	Comments: Comment noted, thanks for your feedback.
Industry QLD	Comments regarding unit title: 'Deliver and promote sales	Adopted: changed title and application as follows:
 Industry Association QLD 	of plants', Is this the correct terminology	Title: "Promote sales of plants"
		Application: "This unit of competency describes the skills and knowledge required to promote plant sales prepare and support offsite marketing, maintain stock inventory and complete documentation.
		The unit applies to individuals who promote sales of plants under broad direction, and take responsibility for their own work and for the quality of the work of others."

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	1.1 Is this relating to a wholesale grower???	"Inform clients of available promotional literature with particular stock lines"
	1.2 'memos', Lists??	"1.2 Dispatch regular stock lists and sales information according to workplace requirements"
	2.3, 2.4 and 2.5 Is the sales person usually the person	Removed 2.3 and 2.4, renumber 2.5 to 2.3 and changed to:
	who picks out stock & is the delivery driver & the regular answer is NO!!!!!!!!	"2.3 Confirmed plants are loaded according to client order and delivery schedule"
 Industry QLD Industry Association QLD RTO NSW 	3.1 change to 'Monitor the transportetc'	"3.1 Monitor the transport and supply of plats according to delivery schedule"
1 THO HOW	Comments regarding PE as follows:	Adopted: changed PE as follows:
	This is sales merchandising and delivery which is rarely a single individual now	Comment discussed, see changes made to PC's, PE to remain as is except for 1 st dot point removed 'and retailers' – "communicated promotions and stock availability with clients"
	Comments regarding AC as follows:	Adopted: changed AC as follows:
	See previous comment above	Comment discussed, see changes made to PC's. AC, resources, equipment and materials, changed to remove 4 th and 5 th sub-points. AC, relationships, changed to remove 'retailers'
AHCNSY312 Prepare special	lised plants	
(formerly AHCNSY305 Prepar	e specialised plants)	
RTO VIC	Comments regarding unit: Should there be an element 4 relevant to the dispatch of the plants? i.e. they usually would have specialised packaging to limit damage; selection of appropriate plants that met the requirements.	Comments: Seeking SME advice regarding adding an Element 4: "Dispatch plants"

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	E.g. if flowering they may require a certain amount of buds.	
	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	1.1 Not 100% sure that this fits. Wouldn't the business/management already have done this as part of	Removed PC 1.1 and renumbered PCs that follow, Changed PC 1.3 to:
	their business plan? Would suggest removal and adjustment to 1.3	"1.3 Assess appropriate techniques for plant species according to workplace production, marketing plan and customer requirements and clarify with supervisor"
	Comments regarding AC , resources, equipment and materials 1 st sub-point, as follows: 'market research', Consider change if element 1 is altered	Adopted: removed AC, resources, equipment and materials 1 st subpoint 'market research'.
Industry QLD	Comments regarding Application as follows:	Comments: This paragraph explains AQF level related to the unit.
 Industry Association QLD 	Paragraph 2: If under broad direction this implies limited 'choice' of plants & techniques	
AHCNSY313 Implement a pro	ppagation plan	
(formerly AHCNSY306 Implem	ent a propagation plan)	
RTO VIC	Comments regarding PE as follows:	Adopted: added PE as follows:
	Would suggest adding an extra performance point around hygiene and biosecurity. E.g. Implemented hygiene and biosecurity practices applicable to plant propagation activities	"implemented hygiene and biosecurity practices applicable to plant propagation activities"
Industry QLD	Comments regarding Elements as follows:	Adopted: changed Element 2 as follows:
 Industry Association QLD 	Element 2: No real relatability to seed propagation methods here i.e. 2.1 & 2.2. change to 'Select seed or vegetative propagation material'	"Select seed or vegetative propagation material"

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	1.6 add 'and biosecurity'	"1.6 Implement hygiene and biosecurity practices applicable to plant propagation activities"
	2.1 add 'or seed'	"2.1 Identify parent plant or seed and select according to health, vigour, or desired characteristics"
	2.2 Could be related to collecting seed but doesn't relate to stored or bought in seed	"2.2 Select or collect propagation material according to propagation method and species'
	Add new PC 2.4 'undertake treatments as required'	"2.4 undertake treatments as required"
Industry QLDIndustry Association QLD	3.1 Determine suitable propagation media and 'container'	"3.1 Select components and prepare propagation media and appropriate container for planting"
	4.3 Prepared propagation material to minimise damage or deterioration?	"4.3 Handle propagation material to minimise damage or deterioration"
	4.6 This should be before 4.5 as that relates to what	Swapped PCs 4.5 and 4.6:
	happens after its placed into the propagation environment as this is mentioned in 1.5 but no direction to use it in the PC.	"4.5 Place propagated material into suitable environment for propagation cycle"
		"4.6 Provide aftercare to suit growing conditions, plant requirements and propagation techniques"
	Comments regarding PE as follows:	Adopted: changed PE as follows:
	8 th dot point: Is this prescription at odds with the 2 paragraph that says implemented a prop plan on at least one occasion?? Being that the plan may not include all of these techniques.	Discussed 8 th dot point: they would have to implement at least one propagation plan and apply a minimum of 7 propagation techniques.

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	8 th dot point, 1 st sub-point: Can we add tissue culture in here as a method and all its permeations of techniques? Not just deflasking as this really is a potting activity	Added new 2 nd sub-dot point 'tissue culture' – "deflasking plantlets" "tissue culture"
Industry QLD Industry Association QLD	Comments regarding AC , resources, equipment and materials 1 st sub-point, as follows: Do we need to specify that propagation material can be seeds, spores, cuttings or tissue culture explants of tissue cultured plantlets and while we mention tissue culture deflasking there is no mention of the technique in propagation ie as a propagation method despite it being uncommon there are still quite a few commercial and research labs in Australia.	Adopted: changed AC, resources, equipment and materials 1 st subpoint to: "parent plants, propagation media and material applicable to propagation techniques being undertaken"
RTO NSW	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	3.1 remove 'for planting' and add 'for method'	"3.1 Select components and prepare propagation media and appropriate container for planting"
	3.3 add: Handle, transport and store propagation media to maintain attributes	Removed PC 3.3, see PC 4.3
	5.5 Add 'and monitor propagation plan progression'	"5.5 Monitor and record propagation activities according to workplace procedures and propagation plan"
AHCNSY314 Operate fertigate	tion equipment	
(formerly AHCNSY307 Operat	e fertigation equipment)	
RTO VIC	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	Double up of recording in 4.2 & 4.3	Added 'and report' to PC 4.2, removed PC 4.3:
		"4.2 Record and report fertiliser application and storage details according to workplace recording procedures"

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
RTO VIC	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	3.1 Majority of fertigation system do not require flushing, they operate whenever the irrigation system is on	Removed PC 3.1 and renumbered PC's that follow.
	3.2 Fertigation equipment is generally not mobile.	"3.2 Clean fertigation equipment according to maintenance procedure"
	Comments regarding PE as follows:	Adopted: changed PE as follows:
	All irrigation system that apply constant fertigation require testing of pH and Ec	Added "monitor water quality and test nitrates, pH and Ec at irrigation emitter for correct application concentration"
	2 'shut down' dot points, move to knowledge.	Removed 2 'shut down' dot points.
	Comments regarding KE as follows:	Adopted: changed KE as follows:
	4 th dot point, 4 th sub-point: All irrigation system that apply constant fertigation require testing of pH and Ec	Added "water quality monitoring and nitrates, pH and Ec testing techniques and procedures"
	Comments regarding AC , resources, equipment and materials 3 rd sub-point, as follows: Not all fertigation equipment use acid. Chlorine is a cleaning agent.	Adopted: changed AC, resources, equipment and materials 3 rd subpoint to: "fertilisers, chemicals and cleaning agents"
 Industry QLD Industry Association QLD 	Comments regarding Application as follows: 'irrigation system' Is this specific as in is there another UoC relating to portable fertigation equipment as most is now in line automated and not requiring much of the actions specified in the elements such as in 3 if its continual process injection	Comments: Comments noted and discussed, see changes made throughout unit.
	Comments regarding PC's as follows:	Adopted: changed PC's to the following:

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution	
	Add new PC 1.5 'Identify water quality issues related to fertigation activities' and renumber/change PCs as follows	"1.5 Identify water quality issues related to fertigation activities", renumbered PCs that follow	
	1.6 change to '1.7 Calculate fertiliser and chemical concentration, and mix according to compatibility requirements'	"1.7 Calculate fertiliser and chemical concentration, and mix according to compatibility requirements"	
	2.3 add 'Monitor water quality and test concentrations at irrigation emitter to ensure calculated concentration is achieved', remove 'Monitor fertigation equipment to ensure no adverse environmental impact is caused by faulty operation'	"2.3 Monitor water quality and test concentrations at irrigation emitter to ensure calculated concentration is achieved"	
	2.5 remove in toto and renumber PCs that follow	Removed 2.5 and renumbered PCs that follow	
	Add new PC 2.7 Is there a need for a checks and balances PC to ensure the calculations and calibrations were accurate as in chlorine disinfestation of water needs 3-5ppm residual after 20 minutes etc as an example it's one thing to calculate and calibrate and another to apply and get it right	See changes made to PC 2.3	
Industry QLD	Remove 3.1 and renumber PCs that follow	Removed 3.1 and renumbered PCs that follow	
Industry Association QLD	Remove 3.4	Removed 3.4	
	Comments regarding PE as follows:	Adopted: changed PE as follows:	
	1 st dot point: 'identified injection requirements', As in volume required to deliver product to crop? OR identified the crop requiring treatment?	Removed	
	6 th dot point: 'hazardous', Consistency of terminology as its either a chemical or a fertiliser and or a product used to clean equipment that may be a strong acid to scour build-up? Should this state concentrated fertilisers instead?	"handled fertilisers and chemicals safely"	

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	Also strong oxidising agents can be fertilisers too so one or the other but rather chemicals and fertilisers safely	
	7 th dot point: 'plants', As mentioned in KE	Removed
	12 th and 13 th dot point: 'shut down equipment', How is this simulated and who determines what an emergency situation is and how dangerous is this activity likely to be? Rather than be aware or demonstrate procedure of how to shut down in event of an emergency	Removed dot points
	Comments regarding KE as follows:	Adopted: changed KE as follows:
	4 th dot point, 2 nd sub-point: For all handled chemicals as required not just fertiliser	"safety data sheets (SDS) information for fertiliser and chemicals to be injected"
	8 th dot point: add 'emergency shutdown'	fertigation and injection equipment shutdown sequence, including emergency shutdown"
	9 th dot point: 'lock out and tag out' remove in toto	Removed
RTO VIC	Comments regarding PE as follows:	Adopted: changed PE as follows:
	Remove 'identified injection requirements'	Removed
	Comments regarding KE as follows:	Adopted: changed KE as follows:
	4 th dot point, 4 th sub-point: add sub points - in solution, with chlorine, with crops	"fertiliser compatibility, or incompatibility in mixtures, with crops and fertigation equipment"
	4 th dot point, 5 th sub-point: change 'impacts' to 'pros and cons'	"advantages of delivering fertilisers using an irrigation system"

Stakeholder Comments and	Identified Issues	Consideration and Proposed Resolution
	Comments regarding AC , resources, equipment and materials 3 rd sub-point, as follows: Agree, not all fertigation equipment use acid. Chlorine is a cleaning agent.	Adopted: changed AC, resources, equipment and materials 3 rd subpoint to: "fertilisers, chemicals and cleaning agents"
AHCNSY403 Plan a growing-	-on program	
(formerly AHCNSY401 Plan a	growing-on program)	
RTO VIC	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	1.5 Should this element be in element 2 if it is asking to incorporate? Otherwise change wording to "Consider"	Moved to element 2, PC 2.9 and changed to:
		"2.9 Determine sustainability and biosecurity practices"
	Comments regarding AC , resources, equipment and materials 2 nd sub-point, as follows:	Adopted: AC , resources, equipment and materials 2 nd sub-point, as follows:
	Is this reflective of what is used when developing a growing-on program? Would past records be more relevant? Or shorten it to just "sources of information" so it is more open	"industry publications, internet and in house sources of information relevant to the planning of a growing-on program"
Industry QLD	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
 Industry Association QLD 	1.1 Change to 'Determine production requirements to meet client specifications'	"1.1 Determine production requirements to meet client specifications"
	1.4 remove in toto	Removed 1.4
	1.5 move to element 2, PC 2.9 and change to 'Determine sustainability and biosecurity practices'	Moved 1.5 to element 2, PC 2.9

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	2.2 Change to 'Identify plants, material, tools and equipment requirements'	"2.2 Identify plants, material, tools and equipment requirements"
	2.3 Change to 'Identify labour and workflow requirements'	"2.3 Identify labour and workflow requirements"
	2.4 Need to source and or specify where the planting material will come from and any scheduling requirements to ensure planting material is available when required such as linking to a propagation plan Change to 'Identify and select environmental parameters to meet plant needs'	"2.4 Identify and select environmental parameters to meet plant needs"
	2.5 Change to 'Determine growing media requirements'	"2.5 Determine growing media requirements"
	Add new PC '2.6 Determine container requirement to meet market or end use' and renumber PCs that follow	"2.6 Determine container requirement to meet market or end use"
	2.7 Change to 'Determine plant spacing and production capacity requirements'	"2.7 Determine plant spacing and production capacity requirements"
	2.9 moved from PC 1.5 and change to 'Determine sustainability and biosecurity practices'	"2.9 Determine sustainability and biosecurity practices"
	2.10 Change to 'Determine growing-on program hygiene practices'	"2.10 Determine growing-on program hygiene practices"
Industry QLD	Add new PC '2.11 Determine growing-on program budget'	"2.11 Determine growing-on program budget"
Industry Association QLD	Remove PC 3.1 and 3.3, and renumber PCs that follow	Removed PC 3.1 and 3.3, and renumber PCs that follow
	3.2 Change to 'Document the growing-on program	"3.2 Document the growing-on program schedule"
	schedule' Add new '4.1 Coordinate activities according to program schedule and growing-on plan' and renumber PCs that follow	"4.1 Coordinate activities according to program schedule and growing-on plan"

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	 4.2 Change to 'Monitor the health & condition of the plants to ensure they are performing according to growing-on plan' 4.3 Change to 'Modify program schedule activities to achieve growing-on plan requirements' 4.4 Change to 'Confirm plants meet client specifications' 	"4.2 Monitor the health & condition of the plants to ensure they are performing according to growing-on plan" "4.3 Modify program schedule activities to achieve growing-on plan requirements" "4.4 Confirm plants meet client specifications"
	Comments regarding PE as follows: 3 rd dot point: Does this include planting material? Or rather that should be specified in a separate point as that often requires significant lead time to hit specific sales windows.ie spring mothers day etc. refer to propagation plan	Adopted: changed PE as follows: "developed and documented a growing-on program and schedule that identifies plants, labour, materials, costs and activities requirements"
	4 th dot point: move to first dot point.	Moved "researched information about production requirements, growth conditions and marketing requirements of a growing-on program" to first dot point
	Comments regarding KE as follows: 1 st dot point, 2 nd sub-point: 'chemical, cultural and biological pest, weed and disease control techniques', Integrated Pest management IPM	Adopted: changed KE as follows: "integrated pest management"
	1st dot point, 7th sub-point: 'Propagation media', Or should this be growing media??????? Comments regarding AC , resources, equipment and materials 2nd sub-point, as follows: add 'in house' sources of information	"preferred types of growing media for different plant species and growth stages" Adopted: AC, resources, equipment and materials 2 nd sub-point, as follows: "industry publications, internet and in house sources of information relevant to the planning of a growing-on program"

AHCNSY404 Plan a propagation program

(formerly AHCNSY402 Plan a propagation program)

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
RTO VIC	Comments regarding AC , resources, equipment and materials 2 nd sub-point, as follows:	Adopted: changed AC, resources, equipment and materials 2 nd subpoint, as follows:
	Is this reflective of what is used when developing a growing-on program? Would past records be more relevant? Or shorten it to just "sources of information" so it is more open.	"industry publications, internet and in house sources of information relevant to the planning of a propagation program"
	Same comment as AHCNSY403 - Can this be shortened to be more open as to where they get their sources of information.	
Industry QLD	Comments regarding Elements as follows:	Adopted: changed Elements to the following:
 Industry Association QLD 	2 Change to 'Develop the propagation plan and schedule'	"2 Develop the propagation plan and schedule"
	3 Change to 'Communicate, coordinate, and monitor propagation plan'	"3 Communicate, coordinate, and monitor propagation plan"
	Comments regarding PC's as follows:	Adopted: changed PC's to the following:
	1.1 Change to 'Determine production requirements'	"1.1 Determine production requirements"
	1.2 remove in toto and renumber PCs that follow	Removed 1.2 and renumber PCs that follow
	1.2 'species' change to 'species, cultivar', 'sound' what does this imply? le is it redundant?	"1.2 Determine propagation techniques, taking into account the species, cultivar and horticultural practice"
	1.3 Change to 'Determine environmental parameters and space requirements that impact on propagation program'	"1.3 Determine environmental parameters and space requirements that impact on propagation program"
	Add new PC '2.1 Identify propagation program activities' and renumber PCs that follow	"2.1 Identify propagation program activities"
Industry QLDIndustry Association QLD	2.2 split into two PCs: '2.2 Identify seed and vegetative propagation material, tools and equipment requirements'	"2.2 Identify seed and vegetative propagation material, tools and equipment requirements "2.3 Identify labour and workflow requirements"

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
	'2.3 Identify labour and workflow requirements' and renumber PCs that follow	
	2.4 Is this more specify the environment required as a strategy would be more the development of a plan to build an environment to suit??? Change to '2.4 Identify and select environmental parameters taking into account the type of plan and propagation method used'	"2.4 Identify and select environmental parameters taking into account the type of plan and propagation method used"
	Add new PC '2.6 Determine container requirement to meet need' and renumber PCs that follow	"2.6 Determine container requirement to meet need"
	2.8 change 'requirements' to 'practices	"2.8 Identify propagation program hygiene practices"
	2.9 The budget would be developed from the plan not vice versa as the plant is required its then down to costing the activity split into two PCs: '2.9 Determine propagation program budget'	"2.9 Determine propagation program budget"
	2.10 Document the propagation plan including all information identified during development'	"2.10 Document the propagation plan including all information identified during development"
	2.11 remove 'against allocated budget'	"2.11 Document the propagation program schedule"
	Remove old PC 2.7 (duplicate of new PC 2.10)	Remove old PC 2.7 (duplicate of new PC 2.10)
	3.1. remove in toto and renumber PCs that follow	Removed 3.1 and renumber PCs that follow
	Add new PC '3.2 Coordinate activities according to program schedule and propagation plan'	"3.2 Coordinate activities according to program schedule and propagation plan"
	Add new PC '3.3 Monitor the health and condition of the plants to ensure they are performing according to propagation plan' and renumber PCs that follow	"3.3 Monitor the health and condition of the plants to ensure they are performing according to propagation plan"

Outside Manager and Description			
Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution	
Industry QLDIndustry Association QLD	3.4 Change to 'Modify program schedule activities to achieve propagation plan requirements'	"3.4 Modify program schedule activities to achieve propagation plan requirements"	
	Comments regarding PE as follows:	Adopted: changed PE as follows:	
	1 st dot point: Why marketing? Other than to hit supply dates or production windows and is this sales not marketing?	"researched information about propagation requirements and plant end use"	
	Add new dot 2 nd dot point: 'identified and assessed factors that could impact the propagation program'	"identified and assessed factors that could impact the propagation program"	
	4 th dot point: change to 'developed and documented a propagation plan and schedule that identifies plants, labour, materials, costs, propagation media requirements and environmental conditions'	"developed and documented a propagation plan and schedule that identifies plants, labour, materials, costs, propagation media requirements and environmental conditions"	
	7 th dot point: change to 'overseen and monitored the propagation program'	"overseen and monitored the propagation program"	
	Comments regarding KE , 2 nd dot point, sub-points:	Adopted: changed KE, 2 nd dot point, sub-points as follows:	
	Change sub-points content and order to the following (see individual comments in unit):	"workplace quality standards for parent plants and other propagation materials"	
	'workplace quality standards for parent plants and other propagation materials'		
	'common propagation activity problems and preventative actions'	"common propagation activity problems and preventative actions"	
	'specify techniques to minimise deterioration during preparation of propagules' 'specify the types of propagation environments required to meet plan requirements' 'propagation program hygiene practices' 'identification of techniques to meet propagation requirements'	"specify techniques to minimise deterioration during preparation of propagules" "specify the types of propagation environments required to meet plan requirements" "propagation program hygiene practices" "identification of techniques to meet propagation requirements"	

Stakeholder Comments and Identified Issues		Consideration and Proposed Resolution
Industry QLDIndustry Association QLD	'Plant Breeder's Rights (PBR) and common licensing arrangements'	"Plant Breeder's Rights (PBR) and common licensing arrangements"
	'preferred types of propagation media for different species and cultivars'	"preferred types of propagation media for different species and cultivars"
	'quality specifications of propagation media' 'processes and techniques for preparing, costing and documenting plans and scheduling propagation activities' 'application techniques for chemical and non-chemical intervention or treatments' 'aftercare requirements applicable to propagated plant species and cultivars'	"quality specifications of propagation media" "processes and techniques for preparing, costing and documenting plans and scheduling propagation activities" "application techniques for chemical and non-chemical intervention or treatments" "aftercare requirements applicable to propagated plant species and cultivars"
	Comments regarding AC as follows:	Adopted: changed AC, as follows:
	resources, equipment and materials 2 nd sub-point, 'industry publications', Why as much of the information is confidential variety and or workplace specific. Change to 'in house sources'	"industry publications, internet and in house sources of information relevant to the planning of a growing-on program"
	specifications 2 nd sub-point, as follows: Must have a knowledge of PBR and restrictions relating to licencing of propagation but legislation is not required	"PBR and common licensing arrangements"
RTO NSW	Comments regarding PC's as follows: 2.7 Add 'and stockplants'	Comments: Seeking SME advice regarding changing PC 2.7 to: "Determine selection criteria for propagation material and stockplants"