# CITY & GUILDS LEVEL 2 AWARD IN THE SAFE APPLICATION OF PESTICIDES USING VARIABLE GEOMETRY BOOM OR BROADCAST SPRAYERS (PA3) 601/5142/0



### **QUALIFICATION GUIDANCE**

# **Independently Assessed**

### **Essential Qualification Information**

### Not to be used by the Candidate during Assessment

You will require some of this information to accurately complete the Record of Assessment (ROA)

Qualification Group No	0 2 1 6	Pesticides
Qualification Programme No	0 2 1 6 - 5 1	L2 Award in the Safe Application of Pesticides Using Variable Geometry Boom or Broadcast Sprayers (PA3)
Unit(s)	1 2 1         1 2 2         1 2 3	Operating a Broadcast Sprayer with Air Assistance (PA3A) (T/505/7685) Operating a Variable Geometry Boom Sprayer with Air Assistance (PA3B) (F/505/7687) Operating a Variable Geometry Boom Sprayer without Air Assistance (PA3C) (L/505/7689)
Guided	1 2 1	GLH 28 (Credit Value 3)
Learning Hours (GLH)	1 2 2	GLH 28 (Credit Value 3)
(0=::)	1 2 3	GLH 28 (Credit Value 3)
Total Qualification Time (TQT)		Minimum 30 Hours
Recommended		
Assessment Duration		1.5 – 3 hours per Candidate
Pre-Requisite Units	1 0 1	Principles of Safe Handling and Application of Pesticides (PA1)

Version and date	Change detail	Section
1.1 November 2017	Added TQT details Deleted QCF / Learning Time	Qualification at a glance, Structure
		Throughout

### City & Guilds Level 2 Award in the Safe Application of Pesticides Using Variable Geometry Boom or Broadcast Sprayers (PA3) Qualification Guidance

#### Introduction

The scheme will be administered by City & Guilds

City & Guilds will:

Publish - Scheme regulations

- Qualification guidance
- Training material
- Trainers support material

Approve Centres to co-ordinate and administer the scheme Set standards for the training of Verifiers and Assessors Recruit, train and deploy Verifiers Manage verification Issue Certificates to successful Candidates

#### The Qualification

The qualification will be awarded to Candidates who achieve the required level of competence in the units to which their Certificate relates.

#### **Training**

The Code of Practice for Using Plant Protection Products states "By Law everyone who uses pesticides professionally must have received adequate training in using pesticides safely". Candidates are strongly advised to ensure that they will be able to meet the standards required in the assessment.

#### **Total Qualification Time**

Total Qualification Time (TQT) is the total amount of time, in hours, expected to be spent by a Learner to achieve a qualification. It includes both guided learning hours (which are listed separately) and hours spent in preparation, study and assessment.

#### Access to Assessment

#### Assessment Centres will be responsible for arranging the assessment on behalf of the Candidate.

The minimum age limit for Candidates taking Certificates of Competence is 16 years. There is no upper age limit.

The assessment is divided in to three optional units:

Unit 121 (PA3A)	(Mandatory)	(Credit Value 3)	(Print pages 6 – 12 plus 27)						
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the Be able to read and in Be able to prepare an Be able to operate the	Know the legislative and safety regulations relating to application equipment (Criteria 1. Be able to assess the environmental factors relating to mixing and application (Criteria 2. Be able to read and interpret product information (Criteria 3.1 – 3.1)  Be able to prepare and calibrate the applicator (Criteria 4.1 – 4.5)  Be able to operate the application equipment (Criteria 5.1 – 5.4)  Know how to carry out post-operational procedures (Criteria 6.1 – 6.3)							
Unit 122 (PA3B)	(Mandatory/Optional)	(Credit Value)	(Print pages <b>13 – 19</b> plus <b>27</b> )						
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the Be able to read and in Be able to prepare an Be able to operate the		teria 4.1 – 4.5) eria 5.1 – 5.4)						
Unit 123 (PA3C)	(Mandatory/Optional)	(Credit Value)	(Print pages <b>20 – 27</b> )						
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the Be able to read and in Be able to prepare an Be able to operate the		teria 4.1 – 4.5) eria 5.1 – 5.4)						

Candidates must successfully achieve all assessment activities in their chosen unit(s).

There are no endorsements for this Award.

#### **Quality Assurance**

Verification is a process of monitoring assessment; it is an essential check to confirm that the assessment procedures are being carried out in the way City & Guilds has specified. The overall aim of Verification is to establish a system of quality assurance that is acceptable in terms of both credibility and cost effectiveness.

Approved Assessors will be subject to a regular visit by a Verifier at a time when assessments are being undertaken.

Documents completed by the Assessor may be inspected by a Centre appointed Internal Verifier and a City & Guilds approved Verifier at any time.

Compliance with the verification requirements is a pre-requisite for Assessors remaining on the list of approved Assessors.

After assessment has been completed the Qualification Guidance is to be retained by the Assessor for 12 months and is to be made available for inspection by a Centre appointed Internal Verifier, a City & Guilds approved Verifier or when a centre visit takes place by a Quality Systems Consultant (QSC).

#### **Performance Evaluation**

The result of each assessment activity is evaluated against the following criteria:

- M = Met Meets or exceeds the assessment criteria by displaying a level of practical performance and/or underpinning knowledge. If the Criterion has been MET, a tick ☑ is to be put in the box provided in the bottom right-hand column of each section.
- NM = Not Met Does not satisfy the requirements of the assessment criteria, being unable to perform the practical task satisfactorily or safely or having insufficient underpinning knowledge. If the Criterion is NOT MET, a cross 🗵 is to be put in the box provided in the bottom right-hand column of each section.

#### **Appeals and Equal Opportunities**

Centres must have their own auditable, appeals procedures. If a Candidate is not satisfied with the examination conditions or a Candidate feels the opportunity for examination is being denied, the Centre Manager should, in the first instance, address the problem. If, however the problem cannot be resolved, City & Guilds will arbitrate and a Principal Verifier may be approached to offer independent advice. All appeals must be clearly documented by the Centre Manager and made available to the Principal Verifier or City & Guilds if advice is required.

Should occasions arise when Centres are not satisfied with any aspect of the verification process, they should contact the Quality Assurance Manager at City & Guilds NPTC, Building 500, Abbey Park, Stareton, Warwickshire, CV8 2LY. Telephone 024 7685 7300

Access to the qualification is open to all, irrespective of gender, race, creed or special needs. Subject to H&S restrictions the Centre Manager should ensure that no learner is subjected to unfair discrimination on any grounds in relation to access to assessment and to the fairness of the assessment. QCA requires City & Guilds to monitor centres to check whether equal opportunities policies are being adhered to.

#### Validation of Equipment

All equipment being used for this assessment must comply with the relevant requirements of the Provision and Use of Work Equipment Regulations (PUWER) 1998.

Vehicles must comply with Department of Transport and Road Traffic Acts where relevant.

Any machinery/equipment complying with current legal requirements is acceptable for the assessment, provided it is suitably equipped for all assessment activities to be carried out.

Summary of responsibilities in the assessment process									
Centre responsibilities	Candidate responsibilities	Assessor responsibilities							
A suitable site is made available for the assessment to take place		Ensuring that the site provided is suitable for the assessment to take place							
Machinery, equipment and materials are available to enable assessment of all the activities to take place	To be familiar with the machinery/equipment being used for the assessment	Ensuring that the machinery, equipment and materials provided satisfy the assessment requirements							
	To bring appropriate Personal Protective Equipment (PPE) to the assessment	Ensuring that candidate's PPE complies with the requirements of the assessment							
	To bring relevant training materials (including calibration sheet if applicable)								
	To bring a product label appropriate for the assessment	To ensure that the product label is appropriate for the assessment (or provide a suitable alternative)							

#### Safe Practice

#### The Assessor and Candidate must wear Personal Protective Equipment (PPE) when appropriate.

The Assessor must ensure that a Site Specific Risk Assessment is carried out.

All equipment must be operated in such a way that the Candidate, Assessor, other persons and the environment are not endangered. Failure to operate safely and comply with these requirements will result in the Candidate not meeting the required standard.

A breach of Health and Safety that puts any person at risk during the assessment process will result in the assessment being terminated and the Candidate not meeting the required standard. The Assessor may stop the assessment on the grounds of safety at any time at their discretion.

Before any assessments take place, Assessor & Candidate should to be aware of any local or national issues to prevent breach of security, safety and any cross contamination or damage to the local environment.

#### Information

During the assessment the candidate may refer to operator manuals, training materials or safety publications, but they <u>may not</u> refer to the Qualification Guidance Document.

Questions should be related to the background or employment aspirations of the candidate.

Candidates who undertake this assessment and have met the requirements are reminded of their legal obligation to receive/undertake appropriate additional training in the use of any equipment that differs from that used during the assessment, but which they are nevertheless qualified to use.

#### **Assessment Guidance for the Assessor**

This qualification can only be assessed by an Assessor who is suitably qualified and meets the requirements of the awarding body. The Assessor must be independent and cannot have been involved with the training of the Candidate. Please see City & Guilds Centre Manual for guidance.

The Candidate is to be notified of the place and time of assessment and when formal assessment commences and ceases.

Assessors are reminded that assessment is a formal process and that assessment must be carried out using this Qualification Guidance. All relevant assessment criteria must be assessed as specified in the Qualification Guidance. Assessment will be carried out by direct observation and by oral questioning of the Candidate. Where a specific number of responses are required these may include other suitable answers not specified if they are deemed to be correct by the Assessor. The performance of the Candidate is to be recorded on the Qualification Guidance as directed by completing the tick boxes. Space has been provided on the Qualification Guidance for the person assessing to record relevant information which can be utilised to provide feedback to the Candidate. After assessment has been completed the Qualification Guidance document is to be retained by the assessor and provided if required.

#### **Assessment Guidance for the Candidate**

A list of registered Assessment Centres is available from City & Guilds NPTC. (www.nptc.org.uk)

Assessment is a process by which it is confirmed that the candidate is competent in the unit(s) within the award to which the assessment relates. It is the process of collecting evidence about the candidate's capabilities and judging whether that evidence is sufficient to attribute competence.

The Candidate must be registered through the City & Guilds approved Assessment Centre for this qualification prior to the assessment.

The results of the assessment will be recorded on the Record of Assessment form (ROA).

The Qualification Guidance contains criteria relating to:

- Observation of practical performance
- Assessment of underpinning knowledge

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City & Guilds is a registered charity established to promote education and training

# Unit 121 - Operating a Broadcast Sprayer with Air Assistance (PA3A)

Candidate A Name:		Name:	Date:		Start Time:	Dura	ition	1:					
Candidate	В	Name:		Date:		Start Time:	Dura	ation	1:				
Candidate	С	Name:		Date:		Start Time:	Dura	Duration:					
Candidate	D	Name:		Date	<b>:</b>	Start Time:	Duration:						
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		A	CANDIDA A B C		TE D		
Unit 121 1.1	requapp air a	scribe the legal uirements relating to lying pesticides using assisted broadcast ayers	Candidate to describe two operator's obligations in terms of legal requirement	s	complies with leg comply with all rewhen operating a highway comply with The (Sustainable Use the operator must	ds are in place and equipments all requirements elevant road traffic regulation transporting on the public Plant Protection Products e) Regulations 2012 at hold the appropriate ne equipment they are using Met Vot I	ons C						
Unit 121 1.2	pes ass spra	scribe how to apply ticides safely using air isted broadcast ayers following industry t practice	Candidate to <b>describe on</b> operator safety regulation terms of air assisted broadcast sprayers	in	<ul><li>adopt industry be</li><li>be aware of any</li></ul>	ticide Codes of Practice	d by						
			Candidate to <b>describe two</b> precautions the operator make to protect self from pesticide contamination who perating the prime mover	nen	<ul> <li>close all window</li> <li>contaminated PF</li> <li>awareness of the components with</li> <li>Open cab/canopy/pla</li> <li>use of appropria</li> </ul>	n system is functional s PE stored in external locker e siting of pressurised nin confines of cab tform: te PPE							
				•	<ul> <li>awareness of the components with cab/canopy/platf</li> </ul>								
			When preparing the prime mover and sprayer, the candidate is to <b>describe three</b> checks which the operator may carry out to protect self from physical danger during operation		front weights wheel track widtl correct tyre pres condition of tyres	sures							
			Candidate to state four aspects of safe practice to considered when driving o uneven/sloping terrain  Candidate to state one	be n	correct gear sele effect of changin use of weights to correct turning p	I drive ed ection g load on stability o stabilise prime mover							
			consideration for safe drivi on a public highway	ng •	•	kes coupled together speed makes vehicle unsta <b>Met ✓ Not</b> I							

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	TE D
	Identify risks to the	Candidate to identify all	May include:				_
Unit 121	environment	relevant risks to the environment for the	ground conditions				
2.1		application site	water courses				
			environmental margins/strips/areas     drains				
			drains     boreholes				
			wildlife				
			non-target plants				
			sensitive crops/areas				
			hedgerows				
			housing				
			public access				
			other risks particular to the site				
			Met ✓ Not Met X				
Unit 121	Explain how to minimise risks to the environment	Candidate to explain how to minimise the risks identified	use an appropriate pesticide (minimal environmental impact)				
		in <b>2.1</b>	careful timing of application				
2.2			check and maintain application rate				
			avoid off target application				
			observe buffer zones				
			comply with air assisted LERAP requirements				
			erect warning signs				
			notify neighbours				
		Candidate to <b>state</b> the reason for minimising off target application & spray drift	avoidance of contamination to people and the environment				
		Candidate to check &	use of anemometer or visual signs at suitable				
		comment on wind speed &	height				
		direction	wind direction				
		Candidate to state <b>five</b> factors that affect spray drift	May include:				
		lactors that allect spray unit	weather conditions				
			direction of spraying				
			<ul> <li>presence of natural/living windbreaks</li> <li>nozzle type and size</li> </ul>				
			pressure				
			• fan speed				
			• fan pitch				
			forward speed				
			nozzle configuration				
			target canopy density				
			use of air deflector(s)				
			Met ✓ Not Met X				
Unit 121	Read product information	The candidate is required to read and interpret the	May include the following:  • product name				
2.4	Interpret product information	information on a product label and provide relevant	<ul><li>active substance(s) (ingredient(s))</li></ul>				
3.1	IIIIOIIIIatioii	information as requested by	Important information:				
Unit 121		the Assessor	field of use				
3.2		Note to the Assessor: A product label is required. It is	crop/target				
V		expected that the candidate	maximum individual dose				
		will provide the product label.  The label provided must be	maximum total dose				
		for a currently approved	maximum number of treatments				
		product and appropriate to the candidates normal work	specific product precautions/warnings				
		situation	operator protection				
		Note to the Candidate	environmental protection				
		(Assessor also to note): It is acceptable for key	restrictions on use				
		information on the label to be	Crop specific information:		_		
		highlighted for use during the assessment	• crop/target				
		addodinont	dose rate     water volume				
Continued			timing				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>-</sup>	TE D
Cont			Mixing and spraying:  • filling				
Unit 121			recommended nozzles				
			recommended pressure				
3.1			spray quality				
Unit 121			additional label information				
3.2			• compatibility				
	Identify applicator controls	Candidate to identify <b>all</b>	Met ✓ Not Met X  May include all/any of the following:		Ш		
Unit 121	and components	components and controls relating to the applicator	main spray tank				
4.1		being used for the	clean water tank     hand week tank				
		assessment	<ul><li>hand wash tank</li><li>pump</li></ul>				
			pulsation damper				
			filling control and devices     agisting control				
			agitation control     pressure adjustment control				
			pressure gauge				
			• on/off				
			boom isolators     boom section pressure compensation controls				
			• filters				
			• nozzles				
			<ul><li>diaphragm check valves</li><li>tank wash system</li></ul>				
			tank drain				
			fan blades and adjustment (if applicable)				
			<ul><li>fan speed control</li><li>air deflector(s)</li></ul>				
			• trash guard				
			other components/controls specific to the applicator				
		Identify and explain the use of <b>one</b> type of nozzle, which	May include:				
		could be that intended for use	<ul> <li>hollow cone – good coverage</li> <li>hollow cone air inclusion – drift reduction</li> </ul>				
			properties				
			Met ✓ Not Met X				
Unit 121	Carry out pre use checks to the prime mover	Candidate to carry out all pre-use checks relevant to	May include:				
		the prime mover being used for the assessment	visual inspection of the wheels and tyres				
4.2		for the assessment	tyre pressures				
			fuel level adequate     engine oil level is within acceptable limits				
			hydraulic oil level is within acceptable limits (if				
			accessible)  transmission oil level is within acceptable limits (if				
			accessible)  coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X				
Unit 121 4.3	Carry out pre-use and operational checks to the sprayer	Candidate to carry out all pre-use and operational checks to the sprayer/applicator	May include all/some of the following as applicable to the sprayer/applicator:				
		Check security of attachment	fasteners tight				
		of applicator mechanisms	straps inspected and adjusted if necessary				
			linkage secure     sideways movement restricted				
			drawbar pin secured				
Continued		Check for mechanical defects	seized, worn or damaged controls/components     electrical connector				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	TE D
Cont		Check that the applicator is lubricated correctly	identification of lubrication points				
Unit 121		,	visual inspection of lubrication points     visual inspection of levels				
			'				
4.3		Remove, clean and refit a filter	Candidate to:  remove and clean using appropriate method				
			contain spillage				
			check for defects, replace if damaged				
			refit				
		Remove, clean/replace and refit a nozzle/restrictor	Candidate to:				
		TOTAL A HOLLIGHT COLLIGIO	remove and clean using appropriate method     contain spillage				
			check for defects replace if worn/damaged				
			refit				
		Explain how to use the	May include:				
		control panel to ensure that the applicator is functioning	functions of control panel				
		correctly (if applicable)	<ul> <li>recognition of malfunctions before and during operation</li> </ul>				
			check accuracy of base settings				
			switch to manual/test mode where applicable				
		Part fill applicator	To include:				
			suitable site selected				
			<ul> <li>fill by usual on-site method, following approved procedures</li> </ul>				
			clean water supply				
		Check applicator for air and	May include:				
		liquid leaks and correct spray patterns	use higher than normal operating pressure				
		patterns	<ul> <li>visual check of all nozzles/atomisers for correct spray patterns, absence of blockages, streaking,</li> </ul>				
			pulsing				
			correct alignment     replace defective paralles/stamiseers/diseases				
			replace defective nozzles/atomisers/discs     lids and seals				
			liquid pipe work and connections				
			air pipework				
			control valves     filters				
			pressure gauge				
			diaphragm check valves				
		State one suitable action in	May include:				
		the event of the control panel failing (if applicable)	stop pesticide application     manual experience of controls if pessible				
		,	<ul> <li>manual operation of controls if possible</li> <li>Met ✓ Not Met X</li> </ul>				
	Calibrate the sprayer and	Candidate is required to	Calibration may include the following:		Ш	Ш	
Unit 121	record relevant data	calibrate the applicator and record relevant data	Called the following.				
4.4		Select and record forward speed	suitable forward speed for crop/target and ground conditions				
		•	appropriate gear selected and engine speed established	_		l	
			accurate measurement of distance				
			accurate measurement of time taken to cover				
			<ul> <li>distance</li> <li>correct use of formula to establish forward speed</li> </ul>				
		Calculate required output/volume rate	correct use of formula				
		Select appropriate nozzle	use of manufacturers operators handbook				
Continued		using manufacturers literature (if available)	use of nozzle manufacturers literature				
Johnmada		<u>'</u>	confirm requirements of product label				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>-</sup>	TE D
	<b>0.11.1 = 1.11.1</b>	Set operating pressure	pressure as determined by nozzle chart				
Cont Unit 121			pressurise/purge appropriate to the system				
Unit 121		Check sprayer output	check output				
4.4			compare with target output				
			vary pressure to make small adjustments				
			change nozzles if required				
			or any other acceptable method				
		State four pieces of	May include:				
		calibration data that should be recorded	registration number of vehicle				
		So receitada	tyre size and pressure				
			• gear selected				
			<ul><li>engine speed</li><li>fan speed</li></ul>				
			vehicle forward speed				
			application volume				
			nozzles fitted				
			nozzle positions				
			pressure				
			flow rate				
			Met ✓ Not Met X				
Unit 121	Calculate quantities of pesticide and water	Candidate to calculate quantities required for both a	To include:				
01111 121	required	specified area and full tank	amount of water required for specified area     amount of pesticide required for specified area				
4.5			amount of pesticide required for specified area     amount of pesticide required for full tank				
			Met ✓ Not Met X				
	Measure the required	Candidate to <b>measure</b> and	To include:				
Unit 121	quantities and add to the	add quantities required for	correct selection and use of PPE/RPE (as				
5.1	sprayer	the area specified in 4.5	required by the product label and/or COSHH Assessment)				
		Note: This may be a simulated pesticide	observance of pesticide manufacturers				
		product provided by the Assessor	instructions for mixing sequence and agitation (or other recommended method)				
		1.00000	suitable site selected				
			clean water supply				
			accurate measurement of water				
			<ul> <li>accurate measurement of pesticide</li> <li>use of filling device (if fitted)</li> </ul>				
			avoidance of spillage				
			Met ✓ Not Met X				
11-11-104	Demonstrate safe and	Candidate to describe <b>two</b>	May include:				
Unit 121	accurate application procedures	possible methods of marking out the site to achieve	• crop rows				
5.2		accurate spraying	• marker poles				
			• GPS				
		Candidate to state two	May include:				
		effects of increasing the fan speed	a larger volume of air is produced, which can deliver the pesticide into a larger target with a				
			higher crop density				
			increased risk of damage to delicate fruits or berries				
			a larger volume of air could create excessive				
			spray drift				
		Candidate to explain one	May include:				
		reason for adjusting fan pitch	a larger volume of air can be produced at lower  and the same first and machine was a				
			engine speeds to save fuel and machine wear     a suitable volume of air can be achieved to deliver				
			the pesticide to the target site				
		Candidate to explain one	May include:				
		reason why different nozzle sizes may be used along the	crop density may vary at different heights				
Continued		boom or nozzles may be shut	crop heights may vary				
		off					

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA'	ſΕ
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Cont		Candidate to explain the procedure if the tank needs	May include:				
Cont		refilling part way through	mark the point where the tank emptied				
Unit 121		application	measure and mix required quantities				
5.0			continue application at the marked point				
5.2		Area treated must be typical	To include:				
		of the candidates normal	treatment area clearly identified				
		work situation and be sufficient to demonstrate safe	operate controls to start and finish application at the beginning and end of each row/bed				
		and accurate application	forward speed maintained/correct forward speed for site conditions				
			pressure maintained				
			accurate matching of bouts				
			obstacles dealt with correctly (if applicable)				
			area treated maintaining adequate penetration				
			and coverage				
			area treated minimising overlaps and misses				
			<ul> <li>awareness of changing crop density and appropriate action taken(if applicable)</li> </ul>				
			awareness of changing weather conditions and		_		
			appropriate action taken (if applicable)				
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
Unit 121 5.3	protecting human health and the environment	Assessor to be satisfied that the candidate has carried out all activities protecting human health and the environment	<ul> <li>prevention of personal injury and contamination through correct selection and use of PPE/RPE (as required by the product information and/or COSHH/Risk Assessment)</li> </ul>				
		environment	prevention of public / bystander contamination				
			safe filling procedure				
			avoidance of excessive spray drift				
			avoidance of off-target application/contamination				
			avoidance of over dosing/under dosing crop/target				
			Met ✓ Not Met X				
	Complete a treatment	The candidate is required to	Completion of the treatment record must be:				
Unit 121	record	complete a treatment record	accurate				
5.4		Note to the assessor: the	legible (if handwritten)				
3.4		treatment record must be	Met ✓ Not Met X				$\Box$
		approved or if necessary supplied by the assessor					
	Explain how to manage	Candidate to explain one	Explanation may include:				
Unit 121	surplus pesticide and	method of managing surplus	return to temporary mobile store				
6.1	dispose of waste material	concentrate pesticide	return to fixed store				
0.1		Candidate to explain two	Containers:				
		method of dealing with waste	triple rinsed				
		packaging	placed in secure storage until disposal				
			returned to supplier				
			collected by a licensed waste disposal contractor				
			- Concolod by a noorised waste disposal contractor	-			
			Packaging:				
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by a licensed waste disposal contractor				
		Candidate to <b>explain two</b> methods of managing surplus dilute pesticides	Explanation may include:         back on to site as long as it is below the maximum dose rate				
			<ul> <li>use on another approved crop/target</li> </ul>				
			<ul> <li>treated by specialist treatment facility on site (e.g.</li> </ul>				
			a lined bio bed)				
			collected by a licensed waste disposal contractor				
			Met ✓ Not Met X				
			MICE - NOT MICE X	Ц.	<u> </u>	Ш	

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	CANDID		IDA	ΓЕ
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	C	D
	Explain how to clean and	Candidate to explain four	May include:				
Unit 121	decontaminate	factors that need to be	select and use appropriate PPE				
6.2	the sprayer and, if applicable, the prime	considered when cleaning and decontaminating the	appropriate site				
0.2	mover	sprayer and, if applicable, the prime mover	<ul> <li>thorough washing with water and suitable additive if required</li> </ul>				
			internal and external surfaces				
			use of in-built wash systems if provided				
			care to ensure contamination 'hot-spots' are clean				
			thorough flushing of systems				
			safe disposal of contaminated washings				
			when cleaning should take place				
			safe procedures followed				
			Met ✓ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 121	requirements for the	factors to consider prior to storing the applicator	ensure the applicator is clean and dry				
6.3	sprayer	storing the applicator	inspect for wear and damage				
0.5			replace any worn or damaged parts				
			<ul> <li>ensure system is drained and any valves left in appropriate positions</li> </ul>				
			frost protection/prevention implemented				
			lubricate as required				
			store undercover and out of direct sunlight				
			store in a secure area				
			Met ✓ Not Met X				

# Unit 122 – Operating a Variable Geometry Boom Sprayer with Air Assistance (PA3B)

Candidate A		Name:		Date	:	Start Time:	Dura	atior				
Candidate	В	Name:	Date:		:	Start Time:	Dura	atior	n:			
Candidate	C	Name:		Date	:	Start Time:	Duration:					
Candidate	D	Name:		Date:		Start Time:	Dura	atior	1:			
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		A	AND B	IDAT C	ΓE D	
Unit 122 1.1	requapp air a	scribe the legal uirements relating to lying pesticides using assisted variable metry boom sprayers	Candidate to describe two operator's obligations in terms of legal requirement	•	complies with leg comply with all re when operating a highway comply with The (Sustainable Use the operator mus	ds are in place and equipments all requirements elevant road traffic regulation or transporting on the public Plant Protection Products e) Regulations 2012 at hold the appropriate the equipment they are using Met V Not I	ons C					
Unit 122		scribe how to apply ticides safely using air	Candidate to <b>describe on</b> operator safety regulation	:	May include:							
1.2	ass boo	isted variable geometry m sprayers following ustry best practice	terms of using air assisted variable geometry boom sprayers	ms of using air assisted riable geometry boom adopt industry best practice								
			Candidate to describe two precautions the operator of take to protect self from pesticide contamination who perating the prime mover	nen o	use of in-cab core ensure ventilation close all window contaminated PF awareness of the components with use of appropria	n system is functional s PE stored in external locker e siting of pressurised nin confines of cab form: te PPE e siting of pressurised nin confines of						
			When preparing the prime mover and sprayer, the candidate is to describe three checks which the operator may carry out to protect self from physical danger during operation  Candidate to state four aspects of safe practice to considered when driving o uneven/sloping terrain	be M	front weights wheel track widtl correct tyre pres condition of tyres brake function  May include: assess condition select four whee appropriate spee correct gear sele effect of changin use of weights to	sures s I drive ed ection g load on stability o stabilise prime mover						
			Candidate to <b>state one</b> consideration for safe drivi on a public highway			kes coupled together speed makes vehicle unsta Met ✓ Not I						

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA.	ΤE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Identify risks to the	Candidate to identify all	May include:				
Unit 122	environment	relevant risks to the environment for the	ground conditions				
2.1		application site	water courses				
2.1		application site	environmental margins/strips/areas				
			drains				
			boreholes				
			wildlife				
			non-target plants				
			sensitive crops/areas				
			hedgerows				
			housing				
			public access				
			other risks particular to the site				
						Ы	
			Met ✓ Not Met X	Ш	Ш	ш	닏
Unit 122	Explain how to minimise risks to the environment	Candidate to <b>explain</b> how to minimise the risks identified	May include:				
Offic 122	lisks to the environment	in <b>2.1</b>	use an appropriate pesticide (minimal environmental impact)		_	l	_
2.2							
			careful timing of application				
			check and maintain application rate				
			avoid off target application				
			observe buffer zones				
			comply with air assisted LERAP requirements				
			erect warning signs				
			notify neighbours				
		Candidate to <b>state</b> the	avoidance of contamination to people and the				
		reason for minimising off	environment				
		target application and spray					
		drift					
		Candidate to check and					
		comment on wind speed and	use of anemometer or visual signs at suitable height				
		direction	wind direction				
			- Wild direction				
		Candidate to state five	May include:				
		factors that affect spray drift	weather conditions				
			direction of spraying				
			<ul> <li>presence of natural/living windbreaks</li> </ul>				
			nozzle type and size				
			pressure				
			fan speed				
			fan pitch				
			air flow direction				
			forward speed				
			nozzle configuration				
			boom geometry				
			target canopy density				
			use of air deflector(s)				
			Met ✓ Not Met X				
			Wet ₹ Not Wet X	Ш	Ш	Ц	Ш

Unit 122 3.2  3.2  Note to the Assessor A product label is required to the additional to require the all information or a product label is required to the Assessor A product label is required to the candidate will be considered to the candidate to the candidate will be considered to the candidate to the candidate will be considered to the candidate to the candidate will be considered to the candidat	CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA1 C	ΓE
Interpret product information on a product label and provide relevant withormation as requested by the Assessor: Note to the Assessor: In eliably provided must be for a currently approved product and appropriate to strength with a support of the strength of the	Unit 122	Read product information		,			]	
Information as required by the Assessor. A product belies in required. It is expected that the concidiate will provide be regularly approved to product produc			information on a product label	·				
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Crop specific information:   Crop specific			Note to the Candidate	·				
Completed for use during the assessment   Completed for use   Completed for				restrictions on use				
Highlighted for use during the assessment as				Crop specific information:				
assessment  - desire volume - inining - ininin								
### timing ### withing and spraying:								
Mixing and spraying:    filling								
Unit 122 4.1    Identify applicator controls and controls relating to the applicator be assessment				• timing				
Unit 122 4.1    Identify applicator controls and components and components and control relating to the applicator being used for the assessment				Mixing and spraying:				
unit 122 4.1    Identify applicator controls and components and controls relating to the applicator being used for the assessment				• filling				
Spray quality				recommended nozzles				
Unit 122 4.1  Unit 122 4.1  Unit 122  Unit 122  Unit 122  Unit 124  Unit 125  Unit 125  Unit 126  Unit 126  Unit 127  Unit 127  Unit 127  Unit 127  Unit 128  Unit 129  Unit 12								
Unit 122 4.1  Unit 122 4.1  Unit 122  Unit 124  Unit 125  Unit 125				spray quality				
Unit 122 4.1    Identify applicator controls and components and controls relating to the applicator being used for the assessment   May include:				additional label information	П		П	
Unit 122 4.1    Identify applicator controls and components and controls relating to the applicator being used for the assessment   May include:   Ombour of the applicator being used for the assessment   May include:   Ombour of the applicator being used for the assessment   May include:   Ombour of the applicator being used for the assessment   May include:   Ombour of the applicator being used for the assessment   May include:   Ombour of the applicator being used for the assessment   May include:   Ombour of the applicator being used for the assessment   Ombour of the applicator   Ombour of the applicator				compatibility				
Unit 122 4.1    Identify applicator controls and components and controls relating to the applicator being used for the assessment				Met ✓ Not Met X		П		
4.1  4.1  4.1  4.1  4.1  4.1  A.1  A.1		Identify applicator controls	Candidate to identify all	May include:				
dean water tank   clean water tank   hand wash tank   pump   compressor   pulsation damper   filling control and devices   agitation control   pressure adjustment control   pressure gauge   on/off   boom break-backs   boom isolators   boom section pressure compensation controls   filters   nozzles   diaphragm check valves   tank wash system   tank drain   fan blades and adjustment (if applicable)   air deflector(s)   trash guard   other components/controls specific to the applicator   wash system   day to the applicator   air deflector(s)   trash guard   other components/controls specific to the applicator   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use   dentify and explain the use of one type of nozzle, which could be that intended for use	Unit 122		components and controls	•			П	
hand wash tank   pump   compressor   comp	4.4							
compressor     pulsation damper     filling control and devices     agitation control     pressure adjustment control     pressure gauge     on/off     boom break-backs     boom isolators     boom section pressure compensation controls     filters     nozzles     diaphragm check valves     tank wash system     tank drain     fan blades and adjustment (if applicable)     fan speed control     air deflector(s)     trash gaurd     other components/controls specific to the applicator  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle, which could be that intended for use  Identify and explain the use of one type of nozzle and the ton to the use of one type of nozzle and the ton to the use of the us	4.1		_	hand wash tank				
pulsation damper     filling control and devices          agitation control     pressure adjustment control     pressure gauge     on/off     boom break-backs     boom section pressure compensation controls     filters     nozzles     diaphragm check valves     tank wash system     tank drain     fan blades and adjustment (if applicable)     air deflector(s)     trash guard     other components/controls specific to the applicator  Identify and explain the use of one type of nozzle, which could be that intended for use  May include:     hollow cone a good coverage				• pump				
filling control and devices   agitation control								
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on/off  boom break-backs  boom isolators  boom section pressure compensation controls  filters  nozzles  diaphragm check valves  tank wash system  tank drain  fan blades and adjustment (if applicable)  fan speed control  air deflector(s)  trash guard  other components/controls specific to the applicator  May include:  hollow cone - good coverage  hollow cone air inclusion - drift reduction properties  flat fan - general purpose								
boom break-backs     boom isolators     boom section pressure compensation controls     filters     nozzles     diaphragm check valves     tank wash system     tank drain     fan blades and adjustment (if applicable)     fan speed control     air deflector(s)     trash guard  Identify and explain the use of one type of nozzle, which could be that intended for use  May include:     hollow cone – good coverage     hollow cone air inclusion – drift reduction properties     flat fan – general purpose								
boom isolators     boom section pressure compensation controls     filters     nozzles     diaphragm check valves     tank wash system     tank drain     fan blades and adjustment (if applicable)     fan speed control     air deflector(s)     trash guard     other components/controls specific to the applicator    Identify and explain the use of one type of nozzle, which could be that intended for use    May include:     hollow cone – good coverage     hollow cone air inclusion – drift reduction properties     flat fan – general purpose       Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use    Identify and explain the use of one type of nozzle, which could be that intended for use   Identify and explain the use of one type of nozzle, which could be that intended for use of the use of one type of								
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tank wash system  tank drain  fan blades and adjustment (if applicable)  fan speed control  air deflector(s)  trash guard  other components/controls specific to the applicator  May include:  hollow cone – good coverage  hollow cone air inclusion – drift reduction properties  flat fan – general purpose								
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fan speed control         air deflector(s)         trash guard         other components/controls specific to the applicator          May include:         hollow cone – good coverage         hollow cone air inclusion – drift reduction properties         flat fan – general purpose								
<ul> <li>air deflector(s)</li> <li>trash guard</li> <li>other components/controls specific to the applicator</li> <li>May include:</li> <li>hollow cone – good coverage</li> <li>hollow cone air inclusion – drift reduction properties</li> <li>flat fan – general purpose</li> </ul>								
<ul> <li>trash guard</li> <li>other components/controls specific to the applicator</li> <li>May include:</li> <li>hollow cone – good coverage</li> <li>hollow cone air inclusion – drift reduction properties</li> <li>flat fan – general purpose</li> </ul>								
<ul> <li>Identify and explain the use of one type of nozzle, which could be that intended for use</li> <li>May include:         <ul> <li>hollow cone – good coverage</li> <li>hollow cone air inclusion – drift reduction properties</li> <li>flat fan – general purpose</li> </ul> </li> </ul>								
of <b>one</b> type of nozzle, which could be that intended for use  • hollow cone – good coverage  • hollow cone air inclusion – drift reduction properties  • flat fan – general purpose								
of <b>one</b> type of nozzle, which could be that intended for use  • hollow cone – good coverage  • hollow cone air inclusion – drift reduction properties  • flat fan – general purpose			Identify and explain the use	May include:				
hollow cone air inclusion – drift reduction properties     flat fan – general purpose			of one type of nozzle, which					
• flat fan – general purpose			could be that intended for use	hollow cone air inclusion – drift reduction				
				Met ✓ Not Met X	Ш	Ш	Ш	Ш

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	C	TE D
	Carry out pre use checks	Candidate to carry out all	May include:			<u> </u>	
Unit 122 4.2	to the prime mover	pre-use checks relevant to the prime mover being used for the assessment	<ul> <li>guards in place and in good condition</li> <li>visual inspection of the wheels and tyres</li> <li>tyre pressures</li> </ul>				
			<ul><li>fuel level adequate</li><li>engine oil level is within acceptable limits</li></ul>				
			hydraulic oil level is within acceptable limits (if accessible)     transmission oil level is within acceptable limits (if				
			accessible)  coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X				
Unit 122 4.3	Carry out pre-use and operational checks to the sprayer	Candidate to carry out all pre-use and operational checks to the sprayer/applicator	May include all/some of the following as applicable to the sprayer/applicator:				
		Check security of attachment of applicator mechanisms	safe unfolding of booms to avoid personal contamination and contact with Over Head Power Lines (OHPL) and any other overhead hazards				
			<ul><li>fasteners tight</li><li>straps inspected and adjusted if necessary</li></ul>				
			linkage secure				
			<ul><li>sideways movement restricted</li><li>drawbar pin secured</li></ul>				
		Check for mechanical defects	seized, worn or damaged controls/components     electrical connectors				
		Check that the applicator is lubricated correctly	<ul> <li>identification of lubrication points</li> <li>visual inspection of lubrication points</li> <li>visual inspection of levels</li> </ul>				
		Check boom settings, suspension and break-back devices	<ul><li>boom suspension operational</li><li>break-back efficiency</li><li>height adjustment</li></ul>				
		Remove, clean and refit a filter	Candidate to:  remove and clean using appropriate method  contain spillage				
			<ul> <li>check for defects, replace if damaged</li> <li>refit</li> </ul>				
		Remove, clean/replace and refit a nozzle/restrictor	Candidate to:  remove and clean using appropriate method  contain spillage  check for defects replace if worn/damaged				
			refit				
		Explain how to use the control panel to ensure that the applicator is functioning	May include:				
		correctly (if applicable)	operation  check accuracy of base settings				
			switch to manual/test mode where applicable				
		Part fill applicator	To include:  • suitable site selected				
Continued			fill by usual on-site method, following approved procedures				
Continued			clean water supply				

CRITERIA ASSESSMENT ASSESSOR ASSESSME NUMBER CRITERIA GUIDANCE ACTIVITIES	_	C/ A	AND B	IDA <sup>*</sup>	ΓE
Check applicator for air and May include:					
Cont  liquid leaks and correct spray patterns  use higher than normal oper visual check of all nozzles/at	tomisers for correct				
spray patterns, absence of b	0 1				
4.3 puising  • correct alignment					
replace defective nozzles/ate					
• lids and seals					
liquid pipe work and connect     air pipework					
air ducting checked for leaks					
control valves	[				
• filters					
State one suitable action in the event of the control panel the event of the control panel to the event of the control panel to the event of the control panel to the event of	ſ				
the event of the control panel stop pesticide application failing manual operation of controls					
Thandar operation of controls	Met ✓ Not Met X	$\frac{-}{1}$	$\Box$		
Calibrate the sprayer and Candidate is required to Calibration may include the follow		_	ш		Н
Unit 122 record relevant data calibrate the applicator and record relevant data					
4.4 Select and record forward speed for cronditions					
appropriate gear selected ar established	nd engine speed				
accurate measurement of dis					
accurate measurement of tine     distance					
correct use of formula to esta					
Calculate required output/volume rate  • correct use of formula	[				
Select appropriate nozzle  • use of manufacturers operate	tors handbook				
using manufacturers literature (if available)  use of nozzle manufacturers					
• confirm requirements of proc	duct label				
Set operating pressure  • pressure as determined by r  • pressurise/purge appropriate					
Check sprayer output  • check output					
compare with target output					
vary pressure to make small	•				
<ul> <li>change nozzles if required</li> <li>or any other acceptable met</li> </ul>					
	niou				
State four pieces of calibration data that should May include:  ■ May include:  ■ registration number of vehicle	ا ما				
be recorded • tyre size and pressure					
gear selected	_				
engine speed	[				
• fan speed	_				
<ul> <li>vehicle forward speed</li> <li>application volume</li> </ul>					
nozzles fitted					
nozzle positions	]				
• pressure					
• flow rate					
Calculate quantities of Candidate to <b>calculate</b> To include:	Met ✓ Not Met X		Ш		Ш
Unit 122 pesticide and water quantities required for both a amount of water required for	r specified area				
required specified area and full tank  • amount of pesticide required					
amount of pesticide required	I for full tank				
	Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>*</sup>	TE D
	Measure the required	Candidate to measure and	To include:				1
Unit 122 5.1	quantities and add to the sprayer	add quantities required for the area specified in 4.5	<ul> <li>correct selection and use of PPE/RPE (as required by the product label and/or COSHH Assessment)</li> </ul>				
		Note: This may be a simulated pesticide product provided by the Assessor	<ul> <li>observance of pesticide manufacturers instructions for mixing sequence and agitation (or other recommended method)</li> </ul>				
		7.00000.	suitable site selected				
			clean water supply				
			accurate measurement of water				
			accurate measurement of pesticide				
			use of filling device (if fitted)				
			avoidance of spillage				
			Met ✓ Not Met X				
11 14 400	Demonstrate safe and	Candidate to describe two	May include:				
Unit 122	accurate application procedures	possible methods of marking out the site to achieve	crop rows				
5.2	procedures	accurate spraying	marker poles				
0.2		arrana spraying	• GPS				
		Candidate to state two	May include:				
		effects of increasing the air	a larger volume of air is produced, which can				
		flow	deliver the pesticide into a larger target with a higher crop density				
			increased risk of damage to delicate fruits or				
			berries				
			a larger volume of air could create excessive				
			spray drift				
		Candidate to explain one	May include:				
		reason for adjusting fan pitch (if applicable)	a larger volume of air can be produced at lower				
		(ii applicable)	engine speeds to save fuel and machine wear				
			<ul> <li>a suitable volume of air can be achieved to deliver the pesticide to the target site</li> </ul>				
			·				
		Candidate to <b>explain</b> the procedure if the tank needs	May include:				
		refilling part way through	mark the point where the tank emptied				
		application	measure, mix and fill with required quantities     continue application at the marked point				
		Candidate to apply pesticide	To include:				
		to treat a specified area appropriate to the candidate's	treatment area clearly identified				
		normal work situation and	operate controls to start and finish application at the beginning and end of each row/bed				
		sufficient to demonstrate safe and accurate application	forward speed maintained/correct forward speed				
		procedures	for site conditions				
			pressure maintained				
			accurate matching of bouts				
			obstacles dealt with correctly (if applicable)				
			area treated minimising overlaps and misses     awareness of changing crop density and				
			appropriate action taken(if applicable)				
			awareness of changing weather conditions and				
			appropriate action taken (if applicable)				
			Met ✓ Not Met X				
Unit 122	Carry out all activities	Note to the Assessor: Assessor to be satisfied that	To include:				
	protecting human health and the environment	the candidate has carried out all activities protecting human	<ul> <li>prevention of personal injury and contamination through correct selection and use of PPE/RPE (as</li> </ul>				
5.3	CHANGINGIK	health and the environment	required by the product information and/or COSHH/Risk Assessment)				
			prevention of public / bystander contamination				
			safe filling procedure				
			avoidance of excessive spray drift				
			avoidance of off-target application/contamination				
			avoidance of over dosing/under dosing crop/target				
			Met ✓ Not Met X				
			mot - Not met X		اللا	الا	ш

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA.	
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 122	Complete a treatment record	The candidate is required to <b>complete</b> a treatment record	Completion of the treatment record must be:				
Omit 122	100014		• accurate				
5.4		Note to the Assessor: the treatment record must be	legible (if handwritten)				
		approved or if necessary supplied by the assessor	Met ✓ Not Met X	Ш			
	Explain how to manage	Candidate to explain one	Explanation may include:				<u> </u>
Unit 122	surplus pesticide and dispose of waste material	method of managing surplus	return to temporary mobile store				
6.1	dispose of waste material	concentrate pesticide	return to fixed store				
		Candidate to explain two	Containers:				
		method of dealing with waste packaging	triple rinsed				
		p across growing	placed in secure storage until disposal				
			returned to supplier				
			collected by a licensed waste disposal contractor				
			Packaging:				
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by a licensed waste disposal contractor				
		Candidate to explain two	Explanation may include:				
		methods of managing surplus dilute pesticides	back on to site as long as it is below the maximum dose rate				
			use on another approved crop/target				
			treated by specialist treatment facility on site (e.g.				
			a lined bio bed)  collected by a licensed waste disposal contractor				
			Met ✓ Not Met X				
	Explain how to clean and	Candidate to explain four	May include:				
Unit 122	decontaminate	factors that need to be	select and use appropriate PPE/RPE				
6.2	the sprayer and, if applicable, the prime	considered when cleaning and decontaminating the	appropriate site				
6.2	mover	sprayer and, if applicable, the prime mover	thorough washing with water and suitable additive if required				
		i ·	internal and external surfaces				
			<ul> <li>use of in-built wash systems if provided</li> </ul>				
			care to ensure contamination 'hot-spots' are clean				
			thorough flushing of systems				
			safe disposal of contaminated washings				
			when cleaning should take place				
			safe procedures followed				
			Met ✓ Not Met X				Ш
Unit 122	Describe the storage requirements for the	Candidate to <b>describe three</b> factors to consider prior to	May include:				
Ollit 122	sprayer	storing the applicator	ensure the applicator is clean and dry     inspect for year and damage.				
6.3			inspect for wear and damage     replace anywers or demaged parts				
			replace any worn or damaged parts     ensure system is drained and any valves left in				
			appropriate positions				
			frost protection/prevention implemented				
			Iubricate as required				
			store undercover and out of direct sunlight				
			store in a secure area				
			Met ✓ Not Met X				

# Unit 123 – Operating a Variable Geometry Boom Sprayer without Air Assistance (PA3C)

Candidate	Α	Name:		Dat	e:	Start Time:	Dura	atior	<b>1</b> :		
Candidate	В	Name:		Dat	e:	Start Time:	Dura	atior	1:		
Candidate	C	Name:		Dat	e:	Start Time:	Dura	atior	1:		
Candidate	D	Name:		Dat	e:	Start Time:	Dura	atior	1:		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C.	AND B	IDA1 C	TE D
Unit 123	requapposition vari	scribe the legal uirements relating to dlying pesticides using able geometry boom ayers without air istance	Candidate to describe two operator's obligations in terms of legal requirements		May include:  all required guar complies with lead comply with all r when operating highway  comply with The (Sustainable Use the operator must	ds are in place and equipments gal requirements elevant road traffic regulation or transporting on the public Plant Protection Products e) Regulations 2012 st hold the appropriate the equipment they are using Met✓ Not I	ons :				
Unit 123 1.2	pes vari spra ass	scribe how to apply ticides safely using able geometry boom ayers without air istance following ustry best practice	Candidate to <b>describe on</b> operator safety regulation terms of using variable geometry boom sprayers		<ul><li>adopt industry b</li><li>be aware of any</li></ul>	ticide Codes of Practice	d by				
			Candidate to <b>describe two</b> precautions the operator metake to protect self from pesticide contamination who perating the prime mover	nay	<ul><li>close all window</li><li>contaminated PI</li><li>awareness of the</li></ul>	n system is functional					
			When preparing the prime mover and sprayer, the candidate is to <b>describe three</b> checks which the operator may carry out to protect self from physical danger during operation		open cab/canopy/plat  use of appropria	form: te PPE e siting of pressurised nin confines of					
					<ul> <li>front weights</li> <li>wheel track widt</li> <li>correct tyre pres</li> <li>condition of tyres</li> <li>brake function</li> </ul>	sures					
			Candidate to state four aspects of safe practice to considered when driving or uneven/sloping terrain		<ul><li>use of weights to</li><li>correct turning p</li><li>keep centre of g</li></ul>	el drive ed ection og load on stability o stabilise prime mover					
			Candidate to <b>state one</b> consideration for safe drivi on a public highway	ng	· ·	kes coupled together speed makes vehicle unsta Met ✓ Not I					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/ A	AND B	IDA <sup>*</sup>	TE D
HOMBER	Identify risks to the	Candidate to identify all	May include:	^	В	C	-
Unit 123	environment	relevant risks to the environment for the	ground conditions				
2.1		application site	water courses				
			environmental margins/strips/areas     drains				
			boreholes				
			wildlife				
			non-target plants				
			sensitive crops/areas				
			hedgerows				
			• housing				
			public access     other risks particular to the site.				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 123	Explain how to minimise risks to the environment	Candidate to <b>explain</b> how to minimise the risks identified	May include:  use an appropriate pesticide (minimal				
	none to the onvironment	in <b>2.1</b>	use an appropriate pesticide (minimal environmental impact)				
2.2			careful timing of application				
			check and maintain application rate				
			avoid off target application				
			observe buffer zones				
			comply with LERAP requirements				
			<ul><li>erect warning signs</li><li>notify neighbours</li></ul>				
			Tiotily fleighbours				
		Candidate to <b>state</b> the reason for minimising off target application and spray drift	avoidance of contamination to people and the environment				
		Candidate to <b>check and comment</b> on wind speed and direction	<ul> <li>use of anemometer or visual signs at suitable height</li> <li>wind direction</li> </ul>				
		Candidate to <b>state five</b> factors that affect spray drift	May include:  weather conditions				
			direction of spraying				
			presence of natural/living windbreaks				
			<ul> <li>nozzle type and size</li> <li>pressure</li> </ul>				
			<ul><li>pressure</li><li>forward speed</li></ul>				
			nozzle configuration				
			boom geometry				
			target canopy density				
			Met ✓ Not Met X				
	Read product information	The candidate is required to	May include the following:				
Unit 123	Interpret product	read and interpret the	product name				
3.1	Interpret product information	information on a product label and provide <b>relevant</b>	active substance(s) (ingredient(s))				
		information as requested by	important information:				
Unit 123		the Assessor	field of use				
3.2		Note to the Assessor: A product label is required. It is	crop/target				
		expected that the candidate	maximum individual dose				
		will provide the product label. The label provided must be	maximum total dose				
		for a currently approved	maximum number of treatments				
		product and appropriate to the candidates normal work	specific product precautions/warnings				
		situation	operator protection				
		Note to the Candidate	environmental protection				
Continued		(Assessor also to note): It is acceptable for key information on the label to be highlighted for use during the	restrictions on use				
		assessment					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>*</sup>	TE
HOMBER	OIGI EIGH	COIDANGE	crop specific information:				
Cont			crop/target				
Unit 123			dose rate				
Onit 123			water volume				
3.1			• timing				
Unit 123			mixing and spraying:				
2.0			filling				
3.2			recommended nozzles				
			recommended pressure				
			spray quality				
			additional label information				
			compatibility				
			Met ✓ Not Met X				
Umit 400	Identify applicator controls	Candidate to identify all	May include:				
Unit 123	and components	components and controls relating to the applicator	main spray tank				
4.1		being used for the	clean water tank				
		assessment	hand wash tank				
			• pump				
			pulsation damper				
			filling control and devices				
			agitation control				
			pressure adjustment control				
			pressure gauge				
			on/off				
			boom break-backs				
			boom isolators				
			boom section pressure compensation controls     filters				
			• nozzles				
			diaphragm check valves				
			tank wash system				
			tank drain				
			other components/controls specific to the applicator				
		Identify and avalage the ves					
		Identify and explain the use of one type of nozzle, which	May include:				
		could be that intended for use	hollow cone – good coverage     hollow cone air inclusion – drift reduction				
			<ul> <li>hollow cone air inclusion – drift reduction properties</li> </ul>				
			flat fan – general purpose				
			Met ✓ Not Met X				
	Carry out pre use checks	Candidate to carry out all	May include:				1
Unit 123	to the prime mover	pre-use checks relevant to	guards in place and in good condition				
4.2		the prime mover being used for the assessment	visual inspection of the wheels and tyres				
7.2			tyre pressures				
			fuel level adequate				
			engine oil level is within acceptable limits				
			hydraulic oil level is within acceptable limits (if accessible)				
			transmission oil level is within acceptable limits (if accessible)				
			coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA	TE
Unit 123	Carry out pre-use and operational checks to the sprayer	Candidate to carry out all pre-use and operational checks to the	May include all/some of the following as applicable to the sprayer/applicator:				
4.3		sprayer/applicator  Check security of attachment of applicator mechanisms	<ul> <li>safe unfolding of booms to avoid personal contamination and contact with Over Head Power Lines (OHPL) and any other overhead hazards</li> <li>fasteners tight</li> <li>straps inspected and adjusted if necessary</li> <li>linkage secure</li> <li>sideways movement restricted</li> <li>drawbar pin secured</li> </ul>				
		Check for mechanical defects	<ul> <li>seized, worn or damaged controls/components</li> <li>electrical connectors</li> </ul>				
		Check that the applicator is lubricated correctly	<ul> <li>identification of lubrication points</li> <li>visual inspection of lubrication points</li> <li>visual inspection of levels</li> </ul>				
		Check boom settings, suspension and break-back devices	<ul> <li>boom suspension operational</li> <li>break-back efficiency</li> <li>height adjustment</li> </ul>				
		Remove, clean and refit a filter	Candidate to:  remove and clean using appropriate method  contain spillage  check for defects, replace if damaged  refit				
		Remove, clean/replace and refit a nozzle/restrictor	Candidate to:  remove and clean using appropriate method contain spillage check for defects replace if worn/damaged refit				
		Explain how to use the control panel to ensure that the applicator is functioning correctly (if applicable)	May include:     functions of control panel     recognition of malfunctions before and during operation     check accuracy of base settings     switch to manual/test mode where applicable				
		Part fill applicator	To include:  • suitable site selected  • fill by usual on-site method, following approved procedures  • clean water supply				
		Check applicator for leaks and correct spray patterns	May include:     use higher than normal operating pressure     visual check of all nozzles/atomisers for correct spray patterns, absence of blockages, streaking,				
			pulsing     correct alignment     replace defective nozzles/atomisers/discs     lids and seals				
			<ul> <li>pipe work and connections</li> <li>control valves</li> <li>filters</li> <li>pressure gauge</li> <li>diaphragm check valves</li> </ul>				
		State one suitable action in the event of the control panel failing (if applicable)	May include:      stop pesticide application     manual operation of controls if possible				
			Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT	ASSESSOR	ASSESSMENT		AND		
NUMBER	CRITERIA Calibrate the sprayer and	GUIDANCE Candidate is required to	ACTIVITIES  Calibration may include the following:	Α	В	С	D
Unit 123	record relevant data	calibrate the applicator and record relevant data	,				
4.4		Select and record forward speed	<ul> <li>suitable forward speed for crop/target and ground conditions</li> </ul>				
			<ul> <li>appropriate gear selected and engine speed established</li> </ul>				
			accurate measurement of distance				
			accurate measurement of time taken to cover distance				
			correct use of formula to establish forward speed				
		Calculate required output/volume rate	correct use of formula				
		Select appropriate nozzle	use of manufacturers operators handbook				
		using manufacturers literature	use of nozzle manufacturers literature				
		(if available)	confirm requirements of product label				
		Set operating pressure	pressure as determined by nozzle chart				
			pressurise/purge appropriate to the system				
		Check sprayer output	check output				
			compare with target output				
			vary pressure to make small adjustments				
			change nozzles if required     or any other acceptable method				
			, ,				
		State four pieces of calibration data that should	May include:				
		be recorded	registration number of vehicle				
			tyre size and pressure				
			gear selected     angine anged				
			<ul><li>engine speed</li><li>vehicle forward speed</li></ul>				
			application volume				
			nozzles fitted				
			nozzle positions				
			• pressure				
			flow rate				
			Met ✓ Not Met X				
Unit 123	Calculate quantities of pesticide and water	Candidate to <b>calculate</b> quantities required for both a	To include:  amount of water required for specified area				
	required	specified area and full tank	amount of pesticide required for specified area				
4.5			amount of pesticide required for full tank				
			Met ✓ Not Met X				
	Measure the required	Candidate to <b>measure</b> and	To include:		H		H
Unit 123 5.1	quantities and add to the sprayer	add quantities required for the area specified in 4.5	correct selection and use of PPE/RPE (as required by the product label and/or COSHH Assessment)				
		Note: This may be a simulated pesticide product provided by the	observance of pesticide manufacturers instructions for mixing sequence and agitation (or other recommended method)				
		Assessor	suitable site selected				
			clean water supply				
			accurate measurement of water				
			accurate measurement of pesticide				
			use of filling device (if fitted)				
			avoidance of spillage				
			Met ✓ Not Met X				
Unit 123	Demonstrate safe and accurate application	Candidate to describe <b>two</b> possible methods of marking	May include:				
	procedures	out the site to achieve	crop rows     marker poles				
5.2		accurate spraying	<ul><li>marker poles</li><li>GPS</li></ul>				
Continued							

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>1</sup>	TE D
Cont		Candidate to <b>explain</b> the procedure if the tank needs	May include:				
COIIL		refilling part way through	mark the point where the tank emptied				
Unit 123		application	measure, mix and fill with required quantities     continue application at the marked point				
5.2			Continue application at the marked point				
J.2		Candidate to <b>explain</b> the	Explanation to include:				
		appropriate procedure to follow when a	select and use appropriate PPE				
		nozzle/restrictor becomes	care not to walk in contaminated crop				
		blocked during an application	clean or replace nozzle/restrictor as appropriate				
		Candidate to apply pesticide	To include:				
		to treat a specified area appropriate to the candidate's	treatment area clearly identified				
		normal work situation and	operate controls to start and finish application at the baginning and and of each row/had.				
		sufficient enough to	the beginning and end of each row/bed forward speed maintained/correct forward speed				
		demonstrate safe and accurate application	for site conditions				
		procedures	pressure maintained				
			accurate matching of bouts				
			obstacles dealt with correctly (if applicable)				
			area treated minimising overlaps and misses				
			<ul> <li>awareness of changing crop density and appropriate action taken(if applicable)</li> </ul>				
			awareness of changing weather conditions and				
			appropriate action taken (if applicable)				
			Met ✓ Not Met X				
Unit 123	Carry out all activities protecting human health	Note to the Assessor: Assessor to be satisfied that	To include:				
OIII. 123	and the environment	the candidate has carried out	<ul> <li>prevention of personal injury and contamination through correct selection and use of PPE/RPE (as</li> </ul>				
5.3		all activities protecting human	required by the product information and/or				
		health and the environment	COSHH/Risk Assessment)				
			prevention of public / bystander contamination				
			safe filling procedure				
			avoidance of spray drift     avoidance of off-target application/contamination				
			avoidance of oir-target application/contamination     avoidance of over dosing/under dosing				
			crop/target				
			Met ✓ Not Met X				
11 1/ 400	Complete a treatment		Completion of the treatment record must be:				
Unit 123	record	complete a treatment record	accurate				
5.4		Note to the Assessor: the	legible (if handwritten)				
		treatment record must be	Met ✓ Not Met X				
		approved or if necessary supplied by the assessor					
	Explain how to manage	Candidate to explain one	Explanation may include:				
Unit 123	surplus pesticide and dispose of waste material	method of managing surplus concentrate pesticide	return to temporary mobile store				
6.1	dispose of waste material	concentrate pesticide	return to fixed store				
		Candidate to explain one	Containers:				
		method of dealing with waste	triple rinsed				
		packaging	placed in secure storage until disposal				
			returned to supplier				
			collected by a licensed waste disposal contractor				
			Packaging:				
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by a licensed waste disposal contractor				
		Candidate to explain two	Explanation may include:				
		methods of managing surplus	back on to site as long as it is below the maximum	_			_
		dilute pesticides	dose rate				
			use on another approved crop/target      treated by appealist treatment facility on site (a.g., a.g., a				
			<ul> <li>treated by specialist treatment facility on site (e.g. a lined bio bed)</li> </ul>				
			collected by a licensed waste disposal contractor				
			Met ✓ Not Met X				
			MIGE F MOLIMIELY	Ш			Ш

CRITERIA	TERIA ASSESSMENT ASSESSOR ASSESSMENT		ASSESSMENT	CANDIDATE			TE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Explain how to clean and	Candidate to explain four	May include:				
Unit 123	decontaminate	factors that need to be	<ul> <li>select and use appropriate PPE/RPE</li> </ul>				
<b>6.2</b> ap	the sprayer and, if applicable, the prime mover	considered when cleaning and decontaminating the sprayer and, if applicable, the prime mover	appropriate site				
			<ul> <li>thorough washing with water and suitable additive if required</li> </ul>				
			internal and external surfaces				
			<ul> <li>use of in-built wash systems if provided</li> </ul>				
			care to ensure contamination 'hot-spots' are clean				
			thorough flushing of systems				
			safe disposal of contaminated washings				
			when cleaning should take place				
			safe procedures followed				
			Met ✓ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 123			ensure the applicator is clean and dry				
6.3	sprayer	storing the applicator	inspect for wear and damage				
0.5			replace any worn or damaged parts				
			<ul> <li>ensure system is drained and any valves left in appropriate positions</li> </ul>				
			frost protection/prevention implemented				
			lubricate as required				
			store undercover and out of direct sunlight				
			store in a secure area				
			Met ✓ Not Met X				

Summary of Assessment (The	Assessor is to con	nblete the follow	ıına as appropriate.
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Candidate A	Candidate has met all of the assessment criteria	Tick ✓	The Candidate <b>has not</b> met all of the assessment criteria; (state reason(s))	Tick ✓						
	Signed: Date:									
Candidate B	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓						
	Signed: Date:									
Candidate C	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓						
	Signed: Date:									
Candidate D	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓						
	Signed:	Date:								
For use by Internal Verifier ONLY if the assessment process was internally verified (Internal Verifier to complete ONE of the boxes below)										
I observed an assessment process taking place and I am satisfied that the assessment was conducted in line with the qualification requirements.										
I observed an assessment process taking place. The following were noted as areas of concern.										
Signed: Date:										