CITY & GUILDS LEVEL 2 AWARD IN THE SAFE APPLICATION OF PESTICIDES USING SELF PROPELLED, MOUNTED, TRAILED HORIZONTAL BOOM SPRAYERS (PA2) 601/5141/9



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 0	L2 Award in the Safe Application of Pesticides Using Self Propelled, Mounted, Trailed Horizontal Boom Sprayers (PA2)
Unit(s)	1 1 1	Operating Mounted, Trailed and Self Propelled Hydraulic Nozzle or Rotary Atomiser Horizontal Boom Sprayers (PA2A) (D/505/7664)
	1 1 2	Operating Mounted, Trailed and Self Propelled Air / Fluid Nozzle Horizontal Boom Sprayers (PA2C)
	1 1 3	((M505/7667) Operating Mounted, Trailed and Self Propelled Downward Air Assisted Horizontal Boom Sprayers
	1 1 4	(PA2E) (M/505/7670) Operating Mounted or Trailed Wick Type Applicators (PA2F) (F/506/8298)
	1 1 5	Operating Vehicle Mounted Kerb Sprayers Fitted with Hydraulic Nozzles/Rotary Atomisers (PA2AR) (D/505/7681)
Guided Learning	1 1 1	GLH 28 (Credit Value 3)
Hours (GLH)	1 1 2	GLH 28 (Credit Value 3)
	1 1 3	GLH 28 (Credit Value 3)
	1 1 4	GLH 28 (Credit Value 3)
	1 1 5	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 Self Propelled, Mounted, Trailed Horizontal Boom Sprayers (PA2) 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.

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 consists of five optional units:

Unit 111 – PA2A	(Optional)	(Credit Value 3)	(Print pages 7 – 13 plus 40)
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the en Be able to read and inter Be able to prepare and on Be able to operate the appropriate the appropriat		iteria 4.1 – 4.5) eria 5.1 – 5.4)
Unit 112 - PA2C	(Optional)	(Credit Value 3)	(Print pages 14 – 20 plus 40)
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the en Be able to read and inter Be able to prepare and on Be able to operate the appropriate the appropriat	, ,	iteria 4.1 – 4.5) eria 5.1 – 5.4)
Unit 113 - PA2E	(Optional)	(Credit Value 3)	(Print pages 21 – 27 plus 40)
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the en Be able to read and inter Be able to prepare and on Be able to operate the appropriate the appropriat		iteria 4.1 – 4.5) eria 5.1 – 5.4)

Unit 114 – PA2F	(Optional)	(Credit Value)	(Print pages 28 – 33 plus 40)
Outcome 1. Outcome 2.	S S	, ,	g to application equipment (Criteria 1.1 – 1.2) ng to the mixing and application site (Criteria 2.1 – 2.2)
Outcome 3.	Be able to read and inter	rpret product information	(Criteria 3.1 – 3.2)
Outcome 4.	Be able to prepare and o	calibrate the applicator (C	Criteria 4.1 – 4.5)
Outcome 5.	Be able to operate the a	pplication equipment (Cr	iteria 5.1 – 5.4)
Outcome 6.	Know how to carry out p	ost-operational procedure	s (Criteria 6.1 – 6.3)
Unit 115 – PA2AR	(Optional)	(Credit Value)	(Print pages 34 – 40)
Outcome 1.	Know the legislative and	safety regulations relating	g to application equipment (Criteria 1.1 – 1.2)
Outcome 2.	Be able to assess the er	vironmental factors relatir	ng to the mixing and application site (Criteria 2.1 – 2.2)
Outcome 3.	Be able to read and inter	pret product information	(Criteria 3.1 – 3.2)
Outcome 4.	Be able to prepare and o	calibrate the applicator (C	Criteria 4.1 – 4.5)
Outcome 5.	Be able to operate the a	pplication equipment (Cr	iteria 5.1 – 5.4)
Outcome 6.	Know how to carry out p	ost-operational procedure	s (Criteria 6.1 – 6.3)

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 76 857300

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 candidates 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 111 - Operating Mounted, Trailed and Self Propelled Hydraulic Nozzle or Rotary Atomiser Horizontal Boom Sprayers (PA2A)

		. ,	,								
Candidate	A	Name:		Date	e:	Start Time:	Dura	ation	1 :		
Candidate	B	Name:		Date	e:	Start Time:	Dura	atior	1:		
Candidate	C C	Name:		Date	e:	Start Time:	Dura	atior	1:		
Candidate	D D	Name:		Date	e:	Start Time:	Dura	atior	1:		
CRITERIA		ASSESSMENT	ASSESSOR			SSESSMENT		-	AND		
NUMBER	D	CRITERIA	GUIDANCE	_		ACTIVITIES		Α	В	С	D
Unit 111	requ appl	cribe the legal lirements relating to lying pesticides using	Candidate to describe two operator's obligations in terms of legal requirements			ds are in place and equipm gal requirements	ent				
1.1	horiz	zontal boom sprayers				elevant road traffic regulation or transporting on the public					
					 comply with The 	Plant Protection Products e) Regulations 2012					
						st hold the appropriate he equipment they are using	g				
						Met√ Not I	Met X				
	Des	cribe how to apply	Candidate to describe on	е	May include:						
Unit 111	pest	icides safely using	operator safety regulation	in	 comply with Pes 	ticide Codes of Practice					
1.2		zontal boom sprayers wing industry best	terms of using horizontal boom sprayers		adopt industry be	est practice					
1.2	prac	,				safety implications imposed sessment and comply with the					
			Candidate to describe two	0	Sealed cab:						
			precautions the operator m	nay	 fit carbon filter 						
			take to protect self from pesticide contamination wh	nen	 use of in-cab cor 	ntrols					
			operating the prime mover		 ensure ventilation 	on system is functional					
					 close all window 						
						PE stored in external locker					
						e siting of pressurised nin confines of cab					
					Open cab/canopy/pla						
					 use of appropria 						
					 awareness of the components with cab/canopy/platt 						
			When preparing the prime		May include:						
			mover and sprayer, the		•	orime mover and sprayer					
			candidate is to describe three checks which the		 front weights 						
			operator may carry out to		 wheel track widt 	h					
			protect self from physical danger during operation		 correct tyre pres 	sures					
			danger during operation		 condition of tyres 	S					
					 brake function 						
			Candidate to state four		May include:						
			aspects of safe practice to considered when driving or		 assess condition 	ns					
			uneven/sloping terrain		 select four whee 						
					 appropriate specent 						
					correct gear sele						
					-	ng load on stability o stabilise prime mover					
					use of weights tocorrect turning p						
			Condidate to sta		 keep centre of g 	ravity as low as possible					
			Candidate to state one consideration for safe drivi	na	May include:	lean named to set					
			on a public highway	ŭ		kes coupled together speed makes vehicle unsta	ahlo				
					• navening at riigh	·					
	Ì		I			Met ✓ Not	Met X	11	$\parallel \parallel \parallel$	11 I	ii l

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 111	environment	relevant risks to the environment for the	ground conditions				
2.1		application site	water courses				
			environmental margins/strips/areas				
			drainsboreholes				
			wildlife				
			non-target plants				
			sensitive crops/areas				
			hedgerows				
			• housing				
			public access				
			other risks particular to the site				
			Met ✓ Not Met X				
	Explain how to minimise	Candidate to explain how to	Explanation may include the following points:				
Unit 111	risks to the environment	minimise the risks identified in 2.1	check and maintain application rate				
2.2		III 2.1	avoid spray drift				
2.2			avoid off target application				
			observe buffer zones				
			comply with LERAP requirements				
			inform neighbours				
			erect warning signs use an appropriate posticide (minimal)				
			use an appropriate pesticide (minimal environmental impact)				
			appropriate timing of application				
		Candidate to state the reason for minimising spray	avoidance of contamination to people and the environment				
		drift or off target application	environment				
		Candidate to check and	use of an anemometer at suitable height or visual				
		comment on wind speed and direction	signs wind direction				
		an outer	wind direction				
		Candidate to state five	May include:				
		factors that affect spray drift	weather conditions				
			direction of spraying				
			nozzle type and size				
			pressureforward speed				
			boom height				
			rotary atomiser speed				
			defective equipment				
			Met ✓ Not Met X				
<u> </u>	Read product information	The candidate is required to	May include the following:		Ш		닏
Unit 111	Read product information	read and interpret the	product name				
	Interpret product	information on a product label	active substance(s) (ingredient(s))				
3.1	information	and provide relevant information as requested by					
Unit 111		the Assessor	Important information:		_	_	
		Note to the Assessor: A	field of use crop/target				
3.2		product label is required. It is	crop/target maximum individual dose				
		expected that the candidate	maximum total dose				
		will provide the product label. The label provided must be	maximum number of treatments				
		for a currently approved					
		product and appropriate to the candidates normal work	specific product precautions/warnings				
		situation	operator protection				
		Note to the Condidete	environmental protection				
[Note to the Candidate (Assessor also to note): It is	restrictions on use				
		acceptable for key	Crop specific information:				
		information on the label to be highlighted for use during the	crop/target				
		assessment	dose rate				
Continued			water volume				
Continued			• timing				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/	AND B	IDAT	TE D
Cont			Mixing and spraying:				
Unit 111			filling reduced volume applications (if applicable)				
			recommended nozzles				
3.1			recommended pressurespray quality				
Unit 111							
3.2			additional label informationcompatibility				
			Met ✓ Not Met X				
Unit 111	Identify applicator components and controls	Candidate to identify all components and controls	May include:				
	components and controls	relating to the applicator	main spray tank pump				
4.1		being used for the assessment	pulsation damper				
			filling control and devices				
			agitation control pressure adjustment control				
			pressure gauge				
			on/off control				
			boom isolators boom section pressure compensation controls				
			• filters				
			tank wash system				
			clean water tank(s)nozzles/atomisers				
			diaphragm check valves				
			tank drain				
			other components/controls specific to the applicator				
		Identify and explain the use	May include:				
		of two types of nozzle, one of which could be that intended	flat fan – fine/medium/coarse spray				
		for use (not applicable to	air inclusion – medium/coarse spray, low-drift				
		Rotary Atomiser sprayers)	cone – fine spray, good coverage				
	Carry out pre-use checks	Candidate to carry out all	Met ✓ Not Met X May include:		Ш	Ш	
Unit 111	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				
			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 adequateengine air filter is clean				
			Met ✓ Not Met X				
	Carry out pre-use and	Candidate to carry out all	May include all/some of the following as applicable to	H		Ш	H
Unit 111	operational checks to the sprayer	pre-use and operational checks to the	the sprayer/applicator:				
4.3		sprayer/applicator Check security of attachment	safe unfolding of booms to avoid personal				
		of applicator mechanisms	contamination and contact with Over Head Power				
			Lines (OHPL) and any other overhead hazards • fasteners tight				
			straps inspected and adjusted if necessary				
			linkage secure sidousus movement restricted				
			sideways movement restricteddrawbar pin secured				
		Check for mechanical	seized, worn or damaged controls/components				
Continued		defects	atomiser drives and electrical connectors				
Continued				<u> </u>		<u> </u>	<u> </u>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA ⁻	TE D
Cont		Check that the applicator is lubricated correctly	identification of lubrication points				
Unit 111		,	 visual inspection of lubrication points visual inspection of levels 				
4.3		Check boom settings, suspension and break-back	boom suspension operationalbreak-back efficiency				
		devices	height adjustment				
		Remove, clean and refit a filter	Candidate to:				
		inter	remove and clean using appropriate method contain spillage				
			 check for defects, replace if damaged refit 				
		Remove, clean/replace and	Candidate to:				
		refit a nozzle/restrictor	 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	May include: • functions of control panel				
		the applicator is functioning correctly (if applicable)	recognition of malfunctions before and during				
			operationcheck accuracy of base settings				
			switch to manual/test mode where possible				
		Part fill applicator	To include: • suitable site selected				
			fill by usual on-site method, following approved				
			procedures clean water supply				
		Check applicator for leaks	May include:				
		and correct spray patterns	suitable site selecteduse 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				
			pipe work and connectionscontrol valves				
			• filters				
			pressure gaugediaphragm check valves				
		State one suitable action in	May include:				
		the event of the control panel failing (if applicable)	 stop pesticide application manual operation of controls if possible 				
			 manual operation of controls if possible Met ✓ Not Met X 				
Unit 111	Calibrate the sprayer and record relevant data	Candidate is required to calibrate the applicator and	Calibration may include the following:				
4.4		record relevant data Select and record forward	suitable forward speed for crop/target and ground		_		
		speed	conditions appropriate gear selected and engine speed established				
			accurate measurement of distance				
			accurate measurement of time taken to cover distance				
			correct use of formula to establish forward speed				
Continued		Calculate required output/volume rate	correct use of formula				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA [*]	TE
	<u> </u>	Select appropriate	use of manufacturers operators handbook				
Cont		nozzle/atomiser using manufacturers literature (if	use of nozzle/atomiser manufacturers literature				
Unit 111		available)	confirm requirements of product label				
4.4		Set operating pressure/disc speed	pressure as determined by nozzle chart disc speed as determined by manufacturers literature				
			pressurise/purge appropriate to the system				
		Check nozzle/atomiser outputs	use a measuring jug to check output from at least one nozzle/atomiser per boom section (minimum of three per applicator)				
			compare with target output				
			vary pressure to make small adjustments				
			change nozzles/atomisers if required				
			or any other acceptable method				
		State four pieces of	May include:				
		calibration data that should be recorded	registration number of vehicle				
			tyre size and pressure				
			gear selectedengine speed				
			vehicle forward speed				
			application volume				
			nozzle/atomiser fitted				
			pressure/disc speed				
			flow rate				
			Met ✓ Not Met X	П	П	П	
	Calculate the quantities of	Candidate to calculate	To include:	Е		Е	\vdash
Unit 111	pesticide and water	quantities required for both a	amount of water required for specified area				
4.5	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				
Unit 111	Measure the required quantities and add to the sprayer	Candidate to measure and add quantities required for the area specified in 4.5	To include: correct selection and use of PPE (as required by the product label and/or COSHH assessment)				
5.1		Note: This may be a simulated pesticide product	observance of pesticide manufacturers instructions for mixing sequence and agitation (or other recommended method)				
		product.	suitable site selected				
			clean water supply				
			accurate measurement of water				
			accurate measurement of pesticide use of filling device (if fitted)				
			avoidance of spillage				
			return to secure storage				
			Met ✓ Not Met X				
	Demonstrate safe and	Candidate to describe two	May include any of the following:			Н	
Unit 111	accurate application	possible methods to achieve	• tramlines				
5.2	procedures	accurate application	crop rows				
5.2			blob markers				
			marker poles				
			marker dyes				
			use of GPS				
		Candidate to explain the	Explanation to include:				
		appropriate procedure to follow when the applicator	avoid contact with contaminated crop				
		needs refilling part way	mark the location at which the applicator emptied				
		through an application	 refill applicator continue spraying by accurately matching at the 				
			appropriate point				
		Candidate to explain 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				
Continued		blocked during an application	clean or replace nozzle/restrictor as appropriate				
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CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	С	AND	IDA	ΓΕ
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Comt		Candidate to apply pesticide	To include:				
Cont		to treat a specified area appropriate to the candidates	ensure boom is level or aligned to the target				
Unit 111		normal work situation and	 correct boom height according to target and type of nozzle 				
		sufficient to demonstrate safe	51.115=215				
5.2		and accurate application procedures	operate controls to start and finish applying accurately at the beginning and end of each bout				
		procedures	correct forward speed and pressure				
			accurate matching of bouts / use of driving aids				
			 coping with obstacles (if applicable) 				
			all of specified area treated, minimising overlaps				
			and misses				
			awareness of changes in wind speed and				
			direction				
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
Unit 111	protecting human health	Assessor to be satisfied that	prevention of personal injury and contamination				
	and the environment	the candidate has carried out	through correct selection and use of PPE (as				
5.3		all activities protecting human health and the	required by the product information and/or				
		environment	COSHH/Risk Assessment)				
			prevention of public / bystander contamination				
			safe filling procedure				
			avoidance of spray drift				
			avoidance of off-target application				
			avoidance of over dosing/under dosing crop/target				
			Met ✓ Not Met X				
	Complete a treatment	Candidate is required to	Completion of the treatment record must be:				
Unit 111	record	complete a treatment record	accurate				
- 4		Note to the Assessment The	legible (if handwritten)				
5.4		Note to the Assessor: The treatment record must be					
		approved by the Assessor (or supplied by the Assessor if	Met ✓ Not Met X				
		necessary)					
	Explain how to manage	Candidate to explain one	May include:				
Unit 111	surplus pesticide and	method of dealing with	return to temporary mobile store				
C 4	dispose of waste material	surplus concentrate pesticide	return to fixed store				
6.1							
		Candidate to explain two methods of dealing with	Containers:	_	_		
		waste containers or	triple rinsed				
		packaging	placed in secure storage until disposal				
			returned to supplier				
			collected by licensed waste contractor	Ш			
			Packaging:				
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by licensed waste disposal contractor				
		Constitute to a second	<u> </u>				
		Candidate to explain two methods of dealing with	May include:				
		surplus dilute pesticide	 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. 			Ш	Ш
			 treated by specialist treatment facility on site (e.g. a lined bio bed) 				
			collected by licensed waste disposal contractor				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	С	AND	IDA [*]	TE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 111 6.2	Explain how to clean and decontaminate the sprayer and, if applicable, the prime mover	Candidate to explain four factors that need to be considered when cleaning and decontaminating the sprayer and, if applicable, the prime mover	May include: select and use appropriate PPE appropriate site thorough washing with water and suitable cleaning agent (if recommended/required) 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				
Unit 111 6.3	Describe the storage requirements for the sprayer	Candidate to describe three factors to consider prior to storing the applicator	safe procedures followed Met ✓ Not Met X May include: ensure the applicator is clean and dry inspect for wear and damage replace any worn or damaged parts controls left in appropriate positions frost protection measures implemented lubricate as required store undercover and out of direct sunlight				
			store in a secure area Met ✓ Not Met X				

Unit 112 - Operating Mounted, Trailed and Self Propelled Air / Fluid Nozzle Horizontal Boom Sprayers (PA2C)

Candidate	Α	Name:		Da	te:		Start Time:	Dura	atior	1:		
Candidate	В	Name:		Da	te:		Start Time:	Dura	atior	ո։		
Candidate	C	Name:		Da	te:		Start Time:	Dura	atior	ո։		•
Candidate	D	Name:		Da	te:		Start Time:	Dura	atior	1:		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE				SSESSMENT ACTIVITIES		C A	AND B	IDAT C	TE D
Unit 112 1.1	requapp hori	cribe the legal uirements relating to lying pesticides using zontal boom sprayers thin fluid nozzles	Candidate to describe two operator's obligations in terms of legal requirements		•	complies with leg comply with all re when operating of highway comply with The (Sustainable Use the operator mus	ds are in place and equiprigal requirements elevant road traffic regulation transporting on the pub. Plant Protection Products (a) Regulations 2012 (b) Redulations 2012 (c) thold the appropriate the equipment they are usi	ions lic				
						certification for ti	Met√ No	J				
Unit 112 1.2	pes hori follo	cribe how to apply ticides safely using zontal boom sprayers owing industry best ctice	Candidate to describe one operator safety regulation iterms of using horizontal boom sprayers	-	•	adopt industry be be aware of any	ticides Codes of Practice est practice safety implications impos sessment and comply with					
			Candidate to describe two precautions the operator metake to protect self from pesticide contamination who perating the prime mover	nay nen	•	oed: fit carbon filter use of in-cab cor ensure ventilatio close all window contaminated PF awareness of the components with n cab/canopy/pla use of appropria awareness of the	n system is functional s PE stored in external locked siting of pressurised hin confines of the cab stform: te PPE estiting of pressurised hin confines of the	èΓ				
			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 or uneven/sloping terrain		May	front weights wheel track widtl correct tyre pres condition of tyres brake function include: assess condition select four whee appropriate spec correct gear sele effect of changin use of weights to correct turning p	sures s I drive (if fitted) ed ection g load on stability o stabilise prime mover					
			consideration for safe drivi	ng	•	independent bra	kes coupled together speed makes vehicle uns Met ✓ No					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA.	TE
Unit 112	Identify risks to the environment	Candidate to identify all relevant risks to the	May include:				
Oille 112	CHVIIOHIIICH	environment for the	• ground conditions				
2.1		application site	water coursesenvironmental 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 112	Explain how to minimise risks to the environment	Candidate to explain how to minimise the risks identified	Explanation to include the following points:		_		_
Offic 112	risks to the environment	in 2.1	check and maintain application rate				
2.2			avoid spray drift				
			observe buffer zones				
			comply with LERAP requirements				
			inform neighbours				
			erect warning signs				
			use an appropriate pesticide (minimal environmental impact)				
			careful timing of application				
			careful lifting of application				
		Candidate to state the reason for minimising spray drift or off target application	avoidance of contamination to people and the environment				
		Candidate to check and	use of anemometer at suitable height or visual				
		comment on wind speed and	signs				
		direction	wind direction				
		Candidate to state five					
		factors that affect spray drift	May include:				
			weather conditions				
			direction of sprayingrestrictor size				
			air pressure fluid pressure				
			forward speed				
			boom height				
			defective equipment				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 440	Read product information	The candidate is required to	The following to be provided:				
Unit 112	Interpret product	read and interpret the information on a product label	product name				
3.1	information	and provide relevant	active substance(s) (ingredient(s))				
		information as requested by the Assessor	Important information:				
Unit 112			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	maximum total dose				
		The label and deduction of he	maximum number of treatments				
		The label provided must be for a currently approved	specific product precautions/warnings				
		product and appropriate to	specific product precautions/warningsoperator protection				
		the candidates normal work	environmental protection				
		situation	restrictions on use				
		Note to the Candidate	- restrictions on use				
		(Assessor also to note): It is	Crop specific information:				
		acceptable for key information on the label to be	crop/target				
		highlighted for use during the	dose rate				
Continue		assessment	water volume				
Continued			• timing				

	ACTIVITIES	Α	В	С	TE D
Cont	Mixing and spraying:				
	filling reduced volume applications (if applicable)				
Unit 112	recommended nozzles/restrictors				
3.1	recommended pressure				
Unit 112	spray quality additional label information				
	compatibility				
3.2	Met ✓ Not Met X				
Identify applicator Candidate to identify all	May include:				
Unit 112 components and controls components and controls relating to the applicator	main spray tank				
4.1 being used for the assessment	pumpcompressor				
docomen	air inlet				
	pressure relief device				
	pulsation damper				
	filling control and devices agitation control				
	agitation control fluid pressure adjustment control				
	air pressure adjustment control				
	air and fluid pressure gauges				
	on/off control				
	boom isolators				
	boom section pressure compensation controls filters				
	filters tank wash system				
	clean water tank				
	nozzle flow restrictors				
	nozzle flood jets				
	diaphragm check valves				
	tank drain other components/controls specific to the				
	other components/controls specific to the applicator				
Identify and explain the use	May include:				
of two sizes of nozzle restrictor, one of which could	• green (35) - 50-120 l/ha. Low volume application				
be that intended for use	 blue (40) 60 -150 l/ha. Medium volume application vellow (50) - 90-250 l/ha. High volume application 				
	yellow (50) - 90-250 l/ha. High volume application Met ✓ Not Met X				
Carry out pre-use checks Candidate to carry out all	May include:	Ш	Ш		
Unit 112 to the prime mover pre-use checks relevant to	guards in place and in good condition				
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				
Unit 112 Carry out pre-use and operational checks to the pre-use and operational checks to the	May include all/some of the following as applicable to the sprayer/applicator:				
sprayer checks 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 over head hazards				
	fasteners tight				
	straps inspected and adjusted if necessary				
	linkage secure				
Continued	sideways movement restricted				
	drawbar pin secured				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	TE D
		Check for mechanical defects	seized, worn or damaged controls/components				
Cont		Check that the applicator is	identification of lubrication points				
Unit 112		lubricated correctly	visual inspection of lubrication points visual inspection of levels				
4.3			·				
		Check boom settings, suspension and break-back	boom suspension operational break-back efficiency				
		devices	height adjustment				
		Remove, clean and refit a	Candidate to:				
		filter	remove and clean using appropriate method				
			contain spillage check for defects				
			• refit				
		Remove, clean/replace and	Candidate to:				
		refit a nozzle restrictor and flood jet	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	May include:				
		the applicator is functioning	 functions of control panel recognition of malfunctions before and during 				
		correctly (if applicable)	operation				
			check accuracy of calibration switch to manual/test mode where applicable				
		Deat Cill and Paster					
		Part fill applicator	 suitable site selected fill by usual on-site method, following approved 				
			procedures				
			clean water supply				
		Check applicator for leaks and correct spray patterns	use higher than normal operating pressure				
		and correct spray patterns	visual check of all nozzles for correct spray patterns, absence of blockages, streaking, pulsing				
			 and correct alignment replace defective nozzle restrictors and/or flood 				
			jets				
			lids and sealsliquid and air pipe work and connections				
			control valves				
			• filters				
			liquid and air pressure gauge diaphragm check valves				
		State one suitable action in	aton posticido application				
		the event of the control panel	 stop pesticide application manual operation of controls if possible 				
		failing (if applicable)	Met ✓ Not Met X				
Unit 112	Calibrate the sprayer and record relevant data	Candidate is required to calibrate the applicator and record relevant data	Calibration may include the following:				
4.4		Select and record forward speed	suitable forward speed for crop/target and ground conditions				
			appropriate gear selected and engine speed actablished (if appliable)				
			established (if applicable) accurate measurement of distance				
			accurate measurement of time taken to cover	_			
			distance correct use of formula to establish forward speed				
Continued		Calculate required output/volume rate	correct use of formula				

Select appropriate nozzle restrictor using manufacturers literature (if available) use of manufacturers literature use of manufacturers literature confirm requirements of product label use of manufacturers literature confirm requirements of product label use of manufacturers literature confirm requirements of product label use of manufacturers literature confirm requirements of product label use of manufacturers literature confirm requirements of product label use of manufacturers literature pressuries as determined by manufacturers literature pressuries product use of manufacturers literature u	D
Unit 112 4.4 4.4 Set operating pressure for liquid and air Check nozzle outputs State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded Calibration data that should data th	
4.4 Set operating pressure for liquid and air Check nozzle outputs Unit 112 Unit 112 Calculate the quantities of quantities of quantities required for a specified area area and add to the sprayer Calculate the required quantities and add to the sprayer Candidate to calculate the quantities of the area specified in 4.5 Note: This may be a simulated pesticide product Set operating pressure for liquid and air Direction of the area specified in 4.5 Note: This may be a simulated pesticide product Direction of the area specified and valer required for coordinate method, following approved procedures Check nozzle outputs Use a measuring jug to check output from all east one nozzle pertomore setting on the system Unit 112 Set a pressure on pressure on a determined by manufacturers literature Unit 112 Direction output Calculate the quantities of pesticide and water required for a specified area and full tank Met Y Not Met X Calculate the quantities of pesticide required for specified area amount of pesticide	
Check nozzle outputs Check nozzle outputs Check nozzle outputs Check nozzle outputs Unit 112 Unit 112 Unit 112 Unit 112 Unit 112 Calculate the quantities of ear a specified area and full tank Calculate the quantities of came and add quantities required for specified area and full tank Calculate the quantities of candidate to measure and add quantities required for sprayer Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Check nozzle outputs use a measuring jug to check output from at least one nozzle per boom section (minimum of three per applicator) use a measuring jug to check output from at least one nozzle per boom section (minimum of three per applicator) use a measuring jug to check output from at least one nozzle per boom section (minimum of three per applicator) use a measuring jug to check output from at least one nozzle per boom section (minimum of three per applicator) use a measuring jug to check output from at least one nozzle per boom section (minimum of three per applicator) unapple values Candidate that should be required or vehicle method Pregistration number of vehicle registration number of vehicle registrat	
Check nozzle outputs Check nozzle outputs Check nozzle outputs Check nozzle outputs Unit 112 Unit 113 Unit 114 Unit 115 Unit 115 Unit 116 Unit 116 Unit 117 Unit 117 Unit 118 Unit 118 Unit 119 Unit 119 Unit 119 Unit 110 Unit 110 Unit 110 Unit 110 Unit 110 Unit 1110 Unit 1110 Unit 1110 Unit 1110 Unit 1110 Unit 1110 Unit 112 Unit 112 Unit 112 Unit 112 Unit 113 Unit 115 Unit 116 Unit 117 Unit 118 Unit 118 Unit 119 Unit 119 Unit 110 Unit 110 Unit 110 Unit 110 Unit 110 Unit 1110 Unit 1110 Unit 1110 Unit 112 Unit 112 Unit 112 Unit 112 Unit 113 Unit 115 Unit 116 Unit 117 Unit 118 Unit 119 Unit 119 Unit 110 Unit 1110 Unit 1110 Unit 1110 Unit 1110 Unit 112 Unit 112 Unit 112 Unit 112 Unit 113 Unit 115 Unit 116 Unit 117 Unit 118 Unit 118 Unit 119 Unit 119 Unit 110 Unit 1110 Unit 1110 Unit 1110 Unit 1110 Unit 112 Unit 112 Unit 112 Unit 112 Unit 115 Unit 116 Unit 117 Unit 118 Unit 118 Unit 119 Unit 119 Unit 110 Unit 1	
one nozzle per boom section (minimum of three per applicator) compare with larget output vary pressure to make small adjustments change nozzle restrictors and/or flood jets if required or any other acceptable method State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded May include: registration number of vehicle tyre size and pressure gear selected engine speed vehicle forward speed explication volume nozzle restrictor fitted area Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified area area Candidate to calculate quantities required for both a specified area and full tank specified area and full tank Candidate to measure and add quantities required for specified area amount of pesticide required for full tank Measure the required quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product To include: correct selection and use of PPE (as required by the product label and/or COSHH Assessment) suitable site selected fill by usual on-site method, following approved procedures clean water supply	
one nozzle per boom section (minimum of three per applicator) compare with larget output vary pressure to make small adjustments change nozzle restrictors and/or flood jets if required or any other acceptable method State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded May include: registration number of vehicle tyre size and pressure gear selected engine speed vehicle forward speed application volume nozzle restrictor fitted area Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified area and full tank specified area and full tank Measure the required quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Vigure 12 Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Vigure 12 Event 13 Vigure 14 Vigure 15 Vigure 15 Vigure 16 Vigure 16 Vigure 17 Vigure 17 Vigure 17 Vigure 18 Vigure 19 Vigure	
State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded May include: • registration number of vehicle • tyre size and pressure • gear selected • engine speed • vehicle forward speed • application volume • nozzle restrictor fitted • air pressure • liquid pressure • liquid pressure • flow rate Unit 112 4.5 Calculate the quantities of pesticide and water quantities required for both a specified area and full tank area and full tank Specified area and full tank To include: • amount of water required for specified area amount of pesticide required for full tank Measure the required of the area specified in 4.5 Note: This may be a simulated pesticide product In include: • correct selection and use of PPE (as required by the product label and/or COSHH Assessment) • suitable site selected • fill by usual on-site method, following approved procedures • clean water supply	
State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded May include: registration number of vehicle tyre size and pressure gear selected engine speed vehicle forward speed application volume nozzle restrictor fitted air pressure liquid pressure liquid pressure liquid pressure flow rate Met V Not Met X Into include: amount of water required for specified area amount of water required for specified area amount of pesticide required for specified area amount of pesticide required for full tank Met V Not Met X Into include: amount of pesticide required for specified area amount of pesticide required for specified a	
State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded May include: registration number of vehicle	
State four pieces of calibration data that should be recorded State four pieces of calibration data that should be recorded May include:	
calibration data that should be recorded - registration number of vehicle - tyre size and pressure - gear selected - engine speed - vehicle forward speed - application volume - nozzle restrictor fitted - air pressure - liquid	
calibration data that should be recorded - registration number of vehicle - tyre size and pressure - gear selected - engine speed - vehicle forward speed - application volume - nozzle restrictor fitted - air pressure - liquid	
Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified area and full tank area specified area and duantities required for the area specified in 4.5 Unit 112 Note: This may be a simulated pesticide product be recorded tyre size and pressure e gear selected e engine speed vehicle forward speed e application volume e nozzle restrictor fitted a air pressure e liquid pressure e liquid pressure e flow rate To include: e amount of water required for specified area e amount of pesticide required for specified area e amount of pesticide required for full tank Met ✓ Not Met X To include: e amount of pesticide required for specified area e amount of pesticide required for full tank Met ✓ Not Met X To include: e correct selection and use of PPE (as required by the product label and/or COSHH Assessment) e suitable site selected e negine speed e dengine speed e application volume e nozzle restrictor fitted e air pressure e liquid pressure e liquid pressure e flow rate To include: e correct selection and use of PPE (as required by the product label and/or COSHH Assessment) e suitable site selected e negine speed e vehicle forward speed e application volume e nozzle restrictor fitted e air pressure e liquid p	
Part of the sprayer	
vehicle forward speed	
Unit 112 Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified area and full tank area Candidate to calculate quantities required for a specified area and full tank To include: Unit 112 Unit 112 S.1 Measure the required quantities and add to the sprayer Candidate to measure and add quantities required for the area specified in 4.5	
Unit 112 4.5 Unit 112 Unit 110 Unit 110 Unit 110 Unit 1110 Unit 110 Unit 110 Unit 1110 Unit	
Unit 112 4.5 Unit 112 A.5 Unit 112 A.5 Unit 112 Uni	
Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified area and full tank area Unit 112 Unit 112 Unit 112 Shape of the area specified area and add to the sprayer Candidate to calculate quantities required for both a specified area and full tank appecified area and full tank appecified area and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Unit 112 Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Unit 112 Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Unit 112 Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Unit 112 Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to calculate the quantities and full tank appecified area amount of water required for specified area amount of pesticide amou	
Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified area and full tank Unit 112 Unit 112 Measure the required quantities and add to the sprayer Measure the required for specified in 4.5 Note: This may be a simulated pesticide product Candidate to calculate quantities required for both a specified area and full tank Met ✓ Not Met X Met ✓ Not Met X To include: amount of pesticide required for specified area amount of pesticide required for full tank Met ✓ Not Met X To include: amount of pesticide required for specified area amount of pesticide area amount of pesticide amoun	
Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified area and full tank 4.5 Measure the required quantities and add to the sprayer Mote: This may be a simulated pesticide product Candidate to calculate quantities required for both a specified area and full tank Met ✓ Not Met X Met ✓ Not Met X To include: amount of pesticide required for specified area amount of pesticide required for full tank Met ✓ Not Met X To include: correct selection and use of PPE (as required by the product label and/or COSHH Assessment) suitable site selected fill by usual on-site method, following approved procedures clean water supply	
Unit 112 4.5 Unit 112 U	
4.5 Candidate to measure and quantities and add to the sprayer Specified in 4.5	
4.5 Anount of pesticide required for specified area	
Unit 112 Solution 112 Unit 112 Measure the required quantities and add to the sprayer Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Note: This may be a simulated pesticide product Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product For include: Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Fill by usual on-site method, following approved procedures Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add use of PPE (as required by the product label and/or COSHH Assessment) Correct selection and use of PPE (as required by the product label and/or COSHH Assessment) Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide Correct selection and use of PPE (as required by the product label and/or COSHH Assessment) Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure an	
Unit 112 Measure the required quantities and add to the sprayer Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Note: This may be a simulated specified product Note: This may be a simulated specified product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add use of PPE (as required by the product label and/or COSHH Assessment) Correct selection and use of PPE (as required by the product label and/or COSHH Assessment) Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add quantities required for the area specified in 4.5 Candidate to measure and add to the add quantities required for the area specified in 4.5 Candidate to measure and add to the area specified in 4.5	
Solution and add to the sprayer add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product asimulated perioduct asimulated pesticide product asimulated pesticide product asimulated pesticide product add quantities required for the area specified in 4.5 Note: This may be a simulated pesticide product asimulated pestici	igsquare
5.1 the area specified in 4.5 Note: This may be a simulated pesticide product fill by usual on-site method, following approved procedures clean water supply the product label and/or COSHH Assessment) suitable site selected fill by usual on-site method, following approved procedures clean water supply	
Note: This may be a simulated pesticide product • fill by usual on-site method, following approved procedures • clean water supply	
product procedures • clean water supply	
• clean water supply	
accurate measurement of pesticide	
• correct filling procedure	
■ use of filling device if fitted ■ avoidance of spillage □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
observance of pesticide manufacturers	
instructions for mixing and agitation	
Met ✓ Not Met X	
Demonstrate safe and Candidate to describe two Unit 112 accurate application possible methods to achieve tramlines May include any of the following; tramlines	
procedures accurate application	
• crop rows • blob markers	
marker poles	
● marker dyes □ □ □	
• use of GPS	
Candidate to explain the Explanation to include:	
appropriate procedure to follow when the applicator ■ avoid contact with contaminated crop □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
needs refilling part way	
through an application • refill applicator • continued • continue spraying by accurately matching at the	
Continued appropriate point Continued appropriate point	

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT		AND		1
NUMBER	CRITERIA	GUIDANCE Candidate to explain the	ACTIVITIES Explanation to include:	Α	В	С	D
Cont		appropriate procedure to	select and use appropriate PPE				
		follow when a nozzle	care not to walk in contaminated crop				
Unit 112		restrictor or flood jet becomes blocked during an application	clean or replace nozzle restrictor or flood jet as				
5.2		blocked during an application	appropriate				
0.2							
		Candidate to apply pesticide	To include:				
		to treat a specified area	ensure boom is level or aligned to the target				
		appropriate the candidates	correct boom height according to target and type				
		normal work situation and sufficient enough to	of nozzle				
		demonstrate safe and	operate controls to start and finish applying				
		accurate application	accurately at the beginning and end of each bout				
		procedures	correct forward speed and pressure for site conditions				
			accurate matching of bouts / use of driving aids				
			coping with obstacles				
			all of specified area treated, minimising overlaps				
			and misses				
			awareness of changes in wind speed and				
			direction				
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
Unit 112	protecting human health	Assessor to be satisfied that	prevention of personal injury and contamination				
F 2	and the environment	the candidate has carried out all activities protecting	through correct selection and use of PPE (as				
5.3		human health and the	required by the product label and/or COSHH				
		environment	Assessment) • prevention of public / bystander contamination				
			safe filling procedure				
			avoidance of spray drift	l			
			avoidance of off-target application				
			avoidance of over dosing/under dosing				
			crop/target				
			Met ✓ Not Met X				
	Complete a treatment	Candidate is required to	Completion of the treatment record must be:				
Unit 112	record	complete a treatment record	accurate				
F 4		Note to the Assessor: The	legible (if handwritten)				
5.4		treatment record must be	Met ✓ Not Met X				
		approved by the Assessor (or	mot / Not mot X				Ш
		supplied by the Assessor if necessary)					
	Explain how to manage	Candidate to explain one	May include:				1
Unit 112	surplus pesticide and	method of dealing with	return to temporary mobile store				
	dispose of waste material	surplus concentrate pesticide	return to fixed store				
6.1							
		Candidate to explain two	Containers:				
		methods of dealing with waste containers and	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	May include:				
		methods of dealing with	back on to site as long as it is below the maximum				
		surplus dilute pesticide	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				
<u> </u>	I	1	<u> </u>				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	С	AND	IDA.	TE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 112 d	Explain how to clean and decontaminate the sprayer and, if applicable, the prime mover	Candidate to explain four factors need to be considered when cleaning and decontaminating the sprayer and, if applicable, the prime mover	May include: select and use appropriate PPE appropriate site thorough washing with water and suitable additive if required 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				
Unit 112 re	Describe the storage requirements for the sprayer	Candidate to describe three factors to consider prior to storing the applicator	May include: • ensure the applicator is clean and dry • inspect for wear and damage • replace any worn or damaged parts • controls left in appropriate positions • frost protection measures implemented • lubricate as required • store undercover and out of direct sunlight • store in a secure area				

Unit 113 - Operating Mounted, Trailed and Self Propelled Downward Air Assisted Horizontal Boom Sprayers (PA2E)

	, ,									
Candidate	A Name:		Date	e :	Start Time:	Dura	ition	1:		
Candidate	B Name:		Date	e:	Start Time:	Dura	ıtior	1:		
Candidate	C Name:		Date	e :	Start Time:	Dura	ition	1:		
Candidate	D Name:		Date	e :	Start Time:	Dura	ation	1:		
CRITERIA	ASSESSMENT	ASSESSOR			SSESSMENT				IDAT	
NUMBER	CRITERIA Describe the legal	GUIDANCE Candidate to describe two		May include:	ACTIVITIES		Α	В	С	D
Unit 113	requirements relating to applying pesticides using horizontal boom sprayers	operator's obligations in terms of legal requirement	s	all required guar complies with legcomply with all re	ds are in place and equipme gal requirements elevant road traffic regulation or transporting on the public	ns				
				highwaycomply with The	Plant Protection Products					
					e) Regulations 2012					
			'	•	st hold the appropriate ne equipment they are using	1				
					Met√ Not N					П
	Describe how to apply	Candidate to describe on	e l	May include:	mot. Hoth	not X	۳	<u> </u>	H	
Unit 113	pesticides safely using	operator safety regulation	•	,	ticides Codes of Practice					
1.2	horizontal boom sprayers following industry best	terms of using horizontal boom sprayers		adopt industry be	est practice					
1.2	practice	Soom oprayors	•		safety implications imposed sessment and comply with t					
		Candidate to describe two	-	Cabbed:						
		precautions the operator make to protect self from	, ,	 fit carbon filter 						
		pesticide contamination wh	nen	use of in-cab cor						
		operating the prime mover		ensure ventilatioclose all window	n system is functional					
					S PE stored in external locker					
				 awareness of the 	e siting of pressurised nin confines of the cab					
				Open cab/canopy/plause of appropria						
					e siting of pressurised					
					nin confines of the					
		When preparing the prime	1	May include:						
		mover and sprayer, the candidate is to describe			orime mover and sprayer					
		three checks which the		 front weights 	L					
		operator may carry out to protect self from physical		wheel track widtlcorrect tyre pres						
		danger during operation		 confect tyre pres condition of tyres 						
				 brake function 						
		Candidata ta atata farra	١.	Mario Sarahada						
		Candidate to state four aspects of safe practice to	ha	May include: assess condition	in .					
		considered when driving o	n lì	 select four whee 						
		uneven/sloping terrain		 appropriate spec 						
				 correct gear sele 						
				 effect of changin 	g load on stability					
				_	stabilise prime mover					
				correct turning p						
			'	 keep centre of g 	ravity as low as possible					
		Candidate to state one		May include:						
		consideration for safe drivi	,		kes coupled together					
			'	 travelling at high 	speed makes vehicle unsta					
					Met ✓ Not N	Met X	\square		\square	

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA ⁻	TE D
	Identify risks to the	Candidate to identify all	May include:				
Unit 113	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				
	Explain how to minimise	Candidate to explain how to	Explanation to include the following points:				
Unit 113	risks to the environment	minimise the risks identified in 2.1	check and maintain application rate				
2.2			avoid spray drift				
2.2			observe buffer zones				
			comply with LERAP requirements				
			inform neighbours				
			erect warning signs				
			use an appropriate pesticide (minimal				
			environmental impact)				
			careful timing of application				
		Candidate to state the	avoidance of contamination to people and the environment				
		reason for minimising spray drift or off target application	environment				
		dint of on target application					
		Candidate to check and	use of anemometer at suitable heights or visual				
		comment on wind speed and	signs				
		direction	wind direction				
		Candidate to state five	May include:				
		factors that affect spray drift	weather conditions				
			direction of spraying				
			nozzle type and size				
			air outlet/nozzle angle				
			air assistance				
			liquid pressure				
			forward speed				
			boom height				
			defective equipment				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 113	Read product information	The candidate is required to read and interpret the	The following to be provided:		_		
Oliit 113		information on a product label	product name				
3.1		and provide relevant	active substance(s) (ingredient(s))				
		information as requested by the Assessor	Met ✓ Not Met X				
	Interpret product	Note to the Assessor: A	Important information:				
Unit 113	information	product label is required. It is	field of use				
		expected that the candidate	crop/target				
3.2		will provide the product label. The label provided must be	maximum individual dose				
		for a currently approved	maximum total dose				
		product and appropriate to	maximum number of treatments				
		the candidates normal work					
		situation	specific product precautions/warnings				
		Note to the Candidate	operator protection				
		(Assessor also to note): It is acceptable for key	environmental protection				
		information on the label to be	restrictions on use				
Continued		highlighted for use during the					
Continueu		assessment					<u> </u>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/	AND B	IDA [*]	TE
_			Crop specific information:				
Cont			crop/target				
Unit 113			dose rate				
			water volume				
3.2			• timing				
			Mixing and spraying:				
			filling				
			reduced volume applications (if applicable)				
			recommended nozzles				
			recommended pressure				
			spray quality				
			additional label information				
			additional label informationcompatibility				
			Met ✓ Not Met X	빝	Ш	Ш	Ш
Unit 113	Identify applicator components and controls	Candidate to identify all components and controls	May include:			_	
Oline 113	components and controls	relating to the applicator	main spray tank				
4.1		being used for the	• pump				
		assessment	pressure relief device				
			pulsation damper				
			filling control and devices				
			agitation control				
			liquid pressure adjustment control				
			• fan				
			air intake air hag/alagya				
			air bag/sleeve for anod adjustment control				I
			fan speed adjustment control sir cutlet and a control				
			air outlet angle controlfan speed indicator				
			on/off control				
			boom isolators				
			boom section pressure compensation controls				
			• filters				
			tank wash system				
			clean water tank				
			• nozzles				
			nozzle angle control				
			diaphragm check valves				
			tank drain				
			other components/controls specific to the				
			applicator				
		Identify and explain the use	May include:				
		of two types of nozzle, one of	flat flan – fine/medium/coarse spray				
		which could be that intended for use (if applicable)	 air inclusion – medium/coarse spray, low drift 				
		ioi use (ii applicable)	cone – fine spray, good coverage				
			Met ✓ Not Met X			П	
	Carry out pre-use checks	Candidate to carry out all	May include:				
Unit 113	to the prime mover	pre-use checks relevant to	 visual inspection of the wheels and tyres 				
		the prime mover being used	tyre pressures				
4.2		for the assessment	fuel level adequate				
			engine oil level is within acceptable limits				
			hydraulic oil level is within acceptable limits (if	1			
			accessible)				
			 transmission oil level is within acceptable limits (if accessible) 				
			coolant level is adequate				
			coolant level is adequate engine air filter is clean				
			Met ✓ Not Met X		Ш	Ш	Ш

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA ⁻	TE D
Unit 113 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 over head hazards fasteners tight straps inspected and adjusted if necessary linkage secure sideways movement restricted drawbar pin secured 				
		Check for mechanical defects	seized, worn or damaged controls/components				
		Check that the applicator is lubricated correctly	 identification of lubrication points visual inspection of lubrication points visual inspection of levels 				
		Check boom settings, suspension and break-back devices	 boom suspension operational break-back efficiency height adjustment 				
		Remove, clean and refit a filter	 Candidate to: remove and clean using appropriate method contain spillage check for defects refit 				
		Remove, clean/replace and refit a nozzle	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)	 functions of control panel recognition of malfunctions before and during operation check accuracy of calibration switch to manual/test mode where applicable 				
		Part fill applicator	 suitable site selected fill by usual on-site method, following approved procedures clean water supply 				
		Check applicator for liquid and air leaks, and correct spray patterns	 use higher than normal operating pressure visual check of all nozzles for correct spray 				
			patterns, absence of blockages, streaking, pulsing and correct alignment replace defective nozzles lids and seals liquid pipe work and connections air bag/sleeve control valves filters liquid pressure gauge diaphragm check valves				
		State one suitable action in the event of the control panel failing (if applicable)	stop pesticide application manual operation of controls if possible Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA ⁻	TE D
Unit 113	Calibrate the sprayer and record relevant data	Candidate is required to calibrate the applicator and record relevant data					
4.4		Select and record forward	Calibration may include the following:				
		speed	suitable forward speed for crop/target and ground conditions				
			appropriate gear selected and engine speed				
			established (if applicable)				
			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 and air speed using	use of manufacturers operators handbook				
		manufacturers literature (if available)	use of manufacturers literature confirm requirements of product label				
		,					
		Set operating pressure for liquid, and set air speed	liquid pressure as determined by manufacturers literature				
			air speed as determined by manufacturers literature				
			pressurise/purge appropriate to the system				
		Check nozzle outputs	use a measuring jug to check output from at least				
		Note to the Assessor: air	one nozzle per boom section (minimum of three			L	
		assistance not required when	per applicator) compare with target output				
		checking nozzle 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	registration number of vehicle				
		be recorded	tyre size and pressure				
			gear selectedengine speed				
			vehicle forward speed				
			application volume nozzles fitted				
			nozzles fittedliquid pressure				
			flow rate				
	Onlandata the among this and	One distante de entrestate	Met ✓ Not Met X				
Unit 113	Calculate the quantities of pesticide and water	Candidate to calculate quantities required for both a	To include: amount of water required for specified area				
4.5	required for a specified area	specified area and full tank	amount of pesticide required for specified area				
			amount of pesticide required for full tank				
	Measure the required	Candidate to measure and	Met ✓ Not Met X To include:		Ш		\sqcup
Unit 113	quantities and add to the	add quantities required for	correct selection and use of PPE (as required by				
5.1	sprayer	the area specified in 4.5	the product label and/or COSHH Assessment) suitable site selected				
		Note: This may be a simulated pesticide	fill by usual on-site method, following approved				
		product	procedures clean water supply				
			accurate measurement of water				
			accurate measurement of pesticide correct filling procedure				
			correct filling procedure use of filling device if fitted				
			avoidance of spillage				
			observance of pesticide manufacturers instructions for mixing and agitation				
			Met ✓ Not Met X				
			Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES		AND		
NUMBER	Demonstrate safe and	Candidate to describe two	May include any of the following:	Α	В	С	D
Unit 113	accurate application	possible methods to achieve	• tramlines				
5.2	procedures	accurate application	crop rows				
0.2			blob markers				
			marker poles				
			marker dyesuse of GPS				
					Ш		
		Candidate to explain the appropriate procedure to	Explanation to include:			_	
		follow when the applicator	avoid contact with contaminated crop				
		needs refilling part way through an application	mark the spot at which the applicator emptied refill applicator				
		a nough an application	 continue spraying by accurately matching at the 				
			appropriate point				
		Candidate to explain the	Explanation to include:				
		appropriate procedure to follow when a nozzle	select and use appropriate PPE				
		becomes blocked during an	care not to walk in contaminated crop				
		application	clean or replace nozzle as appropriate				
		Candidate to explain the appropriate procedure to	stop spraying				
		follow in the event of the	continue to spray without using downwards air				
		failure of the air assistance	assistance (if conditions allow)			Ш	
		system					
		Candidate to state two effects of increasing the	May include:				
		speed of air assistance	keeps the air bag/sleeve inflated over its entire length				
			a larger air volume is produced, which may;				
			improve penetration of the spray into the]		
			crop lead to excessive drift				
		Candidate to explain two	May include:				
		reasons for adjusting air outlet angle and/or nozzle	inclining forward will:				
		angle	open the crop canopy and counteract the effect on the spray created by the forward speed of the sprayer				
			counteract the effect on the spray created by a head wind				
			inclining rearward will:				
			open the crop canopy and counteract the effect				
			on the spray created by a tail wind				
		Candidate to apply pesticide	To include:				
		to treat a specified area appropriate to the candidates	ensure boom is level or aligned to the target				
		normal work situation and	correct boom height according to target and type				
		sufficient to demonstrate safe and accurate application	of nozzle correct air speed according to target and				
		procedures	conditions				
			 correct air outlet and nozzle angle according to target and conditions 				
			operate controls to start and finish applying			Ш	
			accurately at the beginning and end of each bout				
			 correct forward speed and pressure for site conditions 				
			accurate matching of bouts / use of driving aids				
			coping with obstacles				
			all of specified area treated, minimising overlaps and misses				
			awareness of changes in wind speed and direction				
			Met ✓ Not Met X				
	1	1	1	1			

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDAT	TE D
Unit 113 5.3	Carry out all activities protecting human health and the environment	Note to the Assessor: Assessor to be satisfied that the candidate has carried out all activities protecting human health and the	To include: prevention of personal injury and contamination through correct selection and use of PPE (as required by the product label and/or COSHH				
		environment	Assessment) prevention of public / bystander contamination safe filling procedure				
			 avoidance of spray drift avoidance of off target application avoidance of over dosing/under dosing crop/target 				
			Met ✓ Not Met X				
Unit 113	Complete a treatment record	Candidate is required to complete a treatment record	Completion of the treatment record must be: accurate legible (if handwritten)				
5.4		Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	Met ✓ Not Met X				
Unit 113	Explain how to manage surplus pesticide and dispose of waste material	Candidate to explain one method of dealing with surplus concentrate pesticide	May include: return to temporary mobile store return to fixed store				
		Candidate to explain two methods of dealing with waste containers and packaging	containers: triple rinsed 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 May include: 				
			 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 				
	Explain how to clean and	Candidate to explain four	Met ✓ Not Met X May include:				
Unit 113 6.2	decontaminate the sprayer and, if applicable, the prime mover	factors that need to be considered when cleaning and decontaminating the sprayer and, if applicable, the	 select and use appropriate PPE appropriate site thorough washing with water and suitable additive 				
		prime mover	 if required internal and external surfaces use of in-built wash systems if provided 				
			 care to ensure contamination 'hot-spots' are clean thorough flushing of systems, including air bag/sleeve safe disposal of contaminated washings 				
			when cleaning should take place safe procedures followed Met ✓ Not Met X				
Unit 113	Describe the storage requirements for the sprayer	Candidate to describe three factors to consider prior to storing the applicator	May include: ensure the applicator is clean and dry				
6.3			 inspect for wear and damage replace any worn or damaged parts controls left in appropriate positions 				
			 frost protection measures implemented lubricate as required store undercover and out of direct sunlight 				
			• store in a secure area Met ✓ Not Met X				

Unit 114 - Operating Mounted or Trailed Wick Type Applicators (PA2F)

Candidate	A	Name:		Dat	te:		Start Time:	Dura	ition	1 :		
Candidate	В	Name:		Dat	te:		Start Time:	Dura	ition	1:		
Candidate	C	Name:		Dat	te:		Start Time:	Dura	ition	1:		
Candidate	D	Name:		Dat	te:		Start Time:	Dura	ition	1:		
CRITERIA		ASSESSMENT	ASSESSOR				SSESSMENT			AND		
NUMBER	Des	CRITERIA scribe the legal	GUIDANCE Candidate to describe two	0	May	include:	ACTIVITIES		Α	В	С	D
Unit 114 1.1	requapp	uirements relating to lying pesticides using k type applicators	operator's obligations in terms of legal requirements		•	all required guar complies with leg	ds are in place and equipme gal requirements					
		,			•		elevant road traffic regulation or transporting on the public					
					•	(Sustainable Use	Plant Protection Products e) Regulations 2012)					
					•		st hold the appropriate he equipment they are using	g				
							Met√ Not l	Met X	Ш	Ш	Ш	Ш
Unit 114		scribe how to apply ticides safely using	Candidate to describe on operator safety regulation		•	include:	ticides Codes of Practice					
	wicl	k type applicators	terms of using wick type		•	adopt industry b						
1.2		owing industry best ctice	applicators		•	be aware of any	safety implications imposed sessment and comply with					
			Candidate to describe two	_	Cab	had:						
			precautions the operator m	-	•	fit carbon filter						
			take to protect self from pesticide contamination wh	nen	•	use of in-cab con	ntrols					
			operating the prime mover		•	ensure ventilation	n system is functional					
					•	close all window						
					•	contaminated PI	PE stored in external locker					
					Ope •	n cab/canopy/pla use of appropria						
							IG F F L					
			When preparing the prime mover and applicator, the		-	include:						
			candidate is to describe		•		orime mover and sprayer					
			three checks which the operator may carry out to		•	front weights wheel track widt	h					
			protect self from physical		•	correct tyre pres						
			danger during operation		•	condition of tyres	S					
					•	brake function						
			Candidate to state four		May	include:						
			aspects of safe practice to		•	assess condition	ns					
			considered when driving of uneven/sloping terrain	"	•	select four whee						
					•	appropriate spec						
					•	correct gear sele	ection ig load on stability					
					•	J	o stabilise prime mover					
					•	correct turning p	·					
					•	keep centre of g	ravity as low as possible					
			Candidate to state one		May	include:						
			consideration for safe drivi on a public highway	ng	•	•	kes coupled together	-1-1-				
					•	travelling at high	speed makes vehicle unsta					
							Met ✓ Not	Met X		Ш	Ш	Ш

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/A	AND B	IDA ⁻	ΓE
	Identify risks to the	Candidate to identify all	May include:				
Unit 114	environment	relevant risks to the environment for the	ground conditions				
2.1		application site	water coursesenvironmental margins/strips/areas				
			drains				
			• boreholes				
			wildlife				
			non-target plants				
			sensitive crops/areas				
			hedgerowshousing				
			public access				
			other risks particular to the site				
			Met ✓ Not Met X		П	П	
	Explain how to minimise	Candidate to explain how to	Explanation to include the following points:				
Unit 114	risks to the environment	minimise the risks identified	check and maintain application rate				
2.2		in 2.1	observe buffer zones				
2.2			inform neighbours				
			erect warning signs				
			use an appropriate pesticide (minimal environmental impact)				
			careful timing of application				
		Candidate to state the reason for minimising off target application	avoidance of contamination to people and the environment				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 114	Read product information	The candidate is required to read and interpret the	The following to be provided:				
Oille 114	Interpret product	information on a product label	product nameactive substance(s) (ingredient(s))				
3.1	information	and provide relevant information as requested by	Important information:				
3.2		the Assessor	• field of use				
		Note to the Assessor: A	crop/target				
		product label is required. It is expected that the candidate	maximum individual dose				
		will provide the product label.	maximum total dose				
		The label provided must be 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 Condidate	environmental protection				
		Note to the Candidate (Assessor also to note): It is	restrictions on use				
		acceptable for key information on the label to be	Crop specific information:				
		highlighted for use during the	crop/targetdose rate				
		assessment	dose rate timing				
			g				
			dilution rate				
			mixing and filling				
			additional label information compatibility				
	Library Communication	One distante to intendificant	Met ✓ Not Met X	Ш	Ш	Ш	ᆜ
Unit 114	Identify applicator components and controls	Candidate to identify all components and controls	May include: main tank				
		relating to the applicator	wick				
4.1		being used for the assessment	• pump				
			filling control and devices				
			agitation control				
			pressure adjustment control				
			• pressure gauge				
			on/off control filters				
Continued			clean water tank				
			- Gloan water tank				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/	AND B	IDAT	TE D
Cont		0012711102	nozzles/distribution system				
			diaphragm check valves tank drain				
Unit 114			other components/controls specific to the				
4.1			applicator				
			Met ✓ Not Met X				
Unit 114	Carry out pre-use checks to the prime mover	Candidate to carry out all pre-use checks relevant to	May include: • guards in place and in good condition				
4.2		the prime mover being used for the assessment	visual inspection of the wheels and tyres				
1.2			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				
	Carry out pre-use and	Candidate to carry out all	May include all/some of the following as applicable to		_		
Unit 114 4.3	operational checks to the applicator	pre-use and operational checks to the applicator	the applicator:				
4.0		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 over head hazards				
			fasteners tight				
			straps inspected and adjusted if necessary linkage secure				
			sideways movement restricted				
			drawbar pin secured				
		Check for mechanical	seized, worn or damaged controls/components				
		defects	electrical connectors				
			condition of wick				
		Check that the applicator is lubricated correctly	identification of lubrication points				
			visual inspection of lubrication points visual inspection of levels				
		Remove, clean and refit a	Candidate to:				
		filter	remove and clean using appropriate method				
			contain spillage				
			check for defects refit				
		Part fill applicator	To include:				
			suitable site selected				
			fill by usual on-site method, following approved procedures				
			clean water supply				
		Check applicator for leaks	May include:				
		and correct distribution	visual check of all nozzles/distribution system for even application to wick				
			replace defective nozzles/distribution system				
			components Iids and seals				
			pipe work and connections				
			control valves				
			filterspressure gauge				
			diaphragm check valves				
			Met ✓ Not Met X				
<u> </u>	<u> </u>	1	1				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	ΓE
Unit 114	Set up the applicator and record relevant data	Candidate is required to set up the applicator and record relevant data	Set up may include the following:				
4.4		Select forward speed	suitable forward speed for target and ground conditions				
		Check frame settings	height adjustment				
		Prime wick	 travel slowly forward to ensure even distribution time required to prime wick (wet/dry) 				
		State two pieces of	adjust flow rate to wick May include:				
		operational data that should be recorded	registration number of vehicle gear selected				
			 priming time for wick liquid pressure (if applicable) flow rate setting 				
			Met ✓ Not Met X				
Unit 114	Calculate the quantities of pesticide and water required for a specified	Candidate to calculate quantities required for both a specified area and full tank	To include: amount of water required for specified area				
4.5	area	specified area and full tank	 amount of pesticide required for specified area amount of pesticide required for full tank 				
	Magazira the required	Condidate to measure and	Met ✓ Not Met X				
Unit 114 5.1	Measure the required quantities and add to the applicator	Candidate to measure and add quantities required for the area specified in 4.5	To include: correct selection and use of PPE (as required by the product label and/or COSHH Assessment)				
3.1		Note: This may be a simulated pesticide product	 suitable site selected fill by usual on-site method, following approved procedures 				
			clean water supply accurate measurement of water				
			accurate measurement of pesticide				
			correct filling procedure use of filling device if fitted				
			avoidance of spillage				
			observance of pesticide manufacturers instructions for mixing and agitation				
	Demonstrate safe and	Candidate to describe two	Met ✓ Not Met X May include any of the following:			Ш	Ш
Unit 114	accurate application	possible methods to achieve	blob markers				
5.2	procedures	accurate application	marker poles				
			applicator wheelingsuse of GPS				
		Candidate to explain the appropriate procedure to	Explanation to include:				
		follow when the applicator needs refilling part way	 avoid contact with contaminated crop mark the spot at which the applicator emptied 				
		through an application	 refill applicator continue application by accurately matching at the 				
			appropriate point				
		Candidate to describe one problem relating to application that could occur when working on sideways (laterally) sloping ground	May include:				
		Candidate to explain the appropriate procedure to follow when a nozzle or	Explanation to include: • select and use appropriate PPE				
Continued		distribution system becomes blocked during an application	 care not to walk in contaminated crop clean or replace nozzle/distribution system as appropriate 				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	A	AND B	IDA [*]	TE D
Cont		Candidate to apply pesticide to treat a specified area	To include:				
		appropriate to the candidate's	ensure wick is level or aligned to the target correct wick height according to target				
Unit 114		normal work situation and sufficient to demonstrate safe	operate controls to start and finish applying				
5.2		and accurate application	accurately to the target				
		procedures	avoidance of over-saturating wick avoidance of under-saturating wick				
			correct forward speed for site conditions				
			· ·				
			accurate matching of bouts/use of driving aids coping with obstacles				
			all of specified area treated, minimising overlaps				
			and misses				
	Carry out all activities	Note to the Assessor:	Met ✓ Not Met X To include:	Ш	Ш	Ш	닏
Unit 114 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	prevention of personal injury and contamination through correct selection and use of PPE (as required by the product label and/or COSHH Assessment)				
		environment	prevention of public/bystander contamination				
			safe filling procedure avoidance of drips from wick				
			avoidance of drips from wick avoidance of off target application				
			avoidance of over dosing/under dosing crop/target				
			Met ✓ Not Met X				
	Complete a treatment	Candidate is required to	Completion of the treatment record must be:				F
Unit 114	record	complete a treatment record	accurate				
5.4		Note to the Assessor: The treatment record must be	legible (if handwritten)				
		approved by the Assessor (or supplied by the Assessor if necessary)	Met ✓ Not Met X				
Unit 114		Candidate to explain one method of dealing with	May include:				
		surplus concentrate pesticide	return to temporary mobile store return to fixed store				
6.1		Candidate to explain two	Containers:				
		method of dealing with waste	triple rinsed				
		containers and 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	May include:				
		methods of dealing with surplus dilute pesticide	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				
	Explain how to clean and	Condidate to explain four	Met ✓ Not Met X	Ш	Ш	Ш	닏
Unit 114	Explain how to clean and decontaminate the	Candidate to explain four factors that need to be	May include: select and use appropriate PPE				
6.2	applicator and, if applicable, the prime	considered when cleaning and decontaminating the	appropriate site				
0.2	mover	applicator and, if applicable, the prime mover	 thorough washing with water and suitable additive if required 				
		511110 1110101	internal and external surfaces				
			cleaning of the wick				
			thorough flushing of systems				
			safe disposal of contaminated washingswhen cleaning should take place				
			safe procedures followed				
			Met ✓ Not Met X				
			INIGE , HOT MIGE Y		Ш	Ш	اللا

CRITERIA	ASSESSMENT	ASSESSOR		ASSESSMENT	C	AND	IDAT	ſΕ
NUMBER	CRITERIA	GUIDANCE		ACTIVITIES	Α	В	С	D
	Describe the storage	Candidate to describe three	May i	include:				
Unit 114	requirements for the	factors to consider prior to	•	ensure the applicator is clean and dry				
6.3	applicator	storing the applicator	•	inspect for wear and damage				
0.3			•	replace any worn or damaged parts				
			•	controls left in appropriate positions				
			•	frost protection measures implemented				
			•	lubricate as required				
			• :	store undercover and out of direct sunlight				
			• :	store in a secure area				
				Met ✓ Not Met X				

Unit 115 - Operating Vehicle Mounted Kerb Sprayers Fitted with Hydraulic Nozzles/Rotary Atomisers (PA2AR)

					1					
Candidate	e A Name:		Da	ite:	Start Time:	Dura	atior) :		
Candidate	B Name:		Da	te:	Start Time:	Dura	atior) :		
Candidate	e C Name:		Da	ite:	Start Time:	Dura	atior):		
Candidate	e D Name:		Da	ite:	Start Time:	Dura	atior):		
CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C.	AND B	IDA ¹	ΓE D
Unit 115 1.1	Describe the legal requirements relating to applying pesticides using vehicle mounted kerb sprayers	Candidate to describe two operator's obligations in terms of legal requirement		complies with let comply with all r when operating highway comply with The	rds are in place and equipment gal requirements elevant road traffic regulation or transporting on the public elevant Protection Products e) Regulations 2012	ons				
					st hold the appropriate he equipment they are using					
	Describe how to apply	Candidate to describe on	e	May include:	Met√ Not I	Met X	Ш		Ш	
Unit 115 1.2	pesticides safely using vehicle mounted kerb sprayers following industry best practice	operator safety regulation terms of using vehicle mounted kerb sprayers	in	 comply with Pes adopt industry b of non-porous su of surface and g 		ation				
		Candidate to describe two precautions the operator in take to protect self from pesticide contamination who operating the prime mover	nay	Risk/COSHH As requirements Cabbed: fit carbon filter use of in-cab co ensure ventilatio close all window contaminated PI awareness of the	on system is functional rs PE stored in external locker e siting of pressurised hin confines of the cab					
				use of appropriaawareness of the	ite PPE e siting of pressurised hin confines of the					
		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		May include: compatibility of p wheel track widt correct tyre pres condition of tyre brake function	ssures					
		Candidate to state four aspects of safe practice to considered when driving o uneven/sloping terrain Candidate to state one		correct turning p	ed ection ng load on stability					
		consideration for safe drivi on a public highway	ing	1	n speed makes vehicle unsta nicle protocols Met ✓ Not I					

Candidate to state the condidate to state the conditions and conditions are conditions. Candidate to state the conditions are conditions and conditions are conditions and conditions are conditions. The conditions are conditions are conditions and conditions are conditions. The conditions are conditions are conditions are conditions. Candidate to state the conditions are conditions are conditions. The conditions are conditions are conditions are conditions. The conditions are conditions are conditi		
environment for the application site environment for the application site drains water courses environmental areas wildlife non-target plants sensitive crops/areas hedgerows housing public access other risks particular to the site Met ✓ Not Met X Explain how to minimise risks to the environment in 2.1 Explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explanation to include the following points: check and maintain application rate avoid run-off avoid spray drift observe buffer zones inform neighbours appropriate warning signs use an appropriate pesticide (minimal environmental impact) careful timing of application		
2.1 application site application site water courses water courses cenvironmental areas cenvironmental		
water courses environmental areas wildlife non-target plants sensitive crops/areas hedgerows housing public access other risks particular to the site Met ✓ Not Met X Explain how to minimise risks to the environment Explain how to minimise avoid run-off avoid run-off avoid spray drift observe buffer zones inform neighbours appropriate warning signs use an appropriate pesticide (minimal environmental impact) careful timing of application a wildlife non-target plants sensitive crops/areas hedgerows housing public access other risks particular to the site Met ✓ Not Met X Candidate to explain how to minimise the risks identified in 2.1 Explanation to include the following points: check and maintain application rate avoid run-off avoid spray drift observe buffer zones inform neighbours appropriate varning signs use an appropriate pesticide (minimal environmental impact) careful timing of application		
wildlife non-target plants sensitive crops/areas		
unit 115 2.2 Candidate to explain how to minimise risks to the environment Candidate to explain how to minimise the risks identified in 2.1 Candidate to explain how to minimise the risks identified in 2.1 Candidate to explain how to minimise the risks identified in 2.1 Candidate to explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explanation to include the following points: check and maintain application rate check and maintain application check and maintain application rate check and maintain application check and maintain application rate check and maintain application check and maintain application rate check and maintain application rate check and maintain application rate check and maintain application check and maintain application rate check and maintain		
• sensitive crops/areas • hedgerows • housing • public access • other risks particular to the site Met ✓ Not Met X		
Unit 115 2.2 Explain how to minimise risks to the environment Candidate to explain how to minimise the risks identified in 2.1 Candidate to explain how to minimise the risks identified in 2.1 Explain how to minimise the risks identified in 2.1 Explanation to include the following points: • check and maintain application rate • avoid run-off • avoid spray drift • observe buffer zones • inform neighbours • appropriate warning signs • use an appropriate pesticide (minimal environmental impact) • careful timing of application		
• housing • public access • other risks particular to the site Met ✓ Not Met X		
Unit 115 2.2 Explain how to minimise risks to the environment Candidate to explain how to minimise the risks identified in 2.1 Explanation to include the following points: • check and maintain application rate • avoid run-off • avoid spray drift • observe buffer zones • inform neighbours • appropriate warning signs • use an appropriate pesticide (minimal environmental impact) • careful timing of application		
Unit 115 2.2 Explain how to minimise risks to the environment Candidate to explain how to minimise risks to the environment Candidate to explain how to minimise risks identified in 2.1 Explanation to include the following points: • check and maintain application rate • avoid run-off • avoid spray drift • observe buffer zones • inform neighbours • appropriate warning signs • use an appropriate pesticide (minimal environmental impact) • careful timing of application		
Unit 115 2.2 Explain how to minimise risks to the environment Candidate to explain how to minimise risks to the environment Candidate to explain how to minimise the risks identified in 2.1 Explanation to include the following points: • check and maintain application rate • avoid run-off • avoid spray drift • observe buffer zones • inform neighbours • appropriate warning signs • use an appropriate pesticide (minimal environmental impact) • careful timing of application		
Unit 115 2.2 Explain how to minimise risks to the environment Candidate to explain how to minimise risks identified in 2.1 Candidate to explain how to minimise risks identified in 2.1 Explanation to include the following points: check and maintain application rate avoid run-off avoid spray drift observe buffer zones inform neighbours appropriate warning signs use an appropriate pesticide (minimal environmental impact) careful timing of application		
Trisks to the environment minimise the risks identified in 2.1 • check and maintain application rate avoid run-off • avoid spray drift • observe buffer zones • inform neighbours • appropriate warning signs • use an appropriate pesticide (minimal environmental impact) • careful timing of application		
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 appropriate warning signs use an appropriate pesticide (minimal environmental impact) careful timing of application 		
 use an appropriate pesticide (minimal environmental impact) careful timing of application 		
environmental impact) • careful timing of application		
• careful timing of application		
Candidate to state the		
reason for minimising spray drift or off target application		
Candidate to check and comment on wind speed and one wind use of anemometer at suitable heights or visual signs		
direction • wind direction		
Candidate to state five May include:		
factors that affect spray drift	ı _ l .	
weather conditions		
• direction of spraying		
nozzle type and size		
• pressure		
• forward speed		
• nozzle height		
• rotary atomiser speed		
• defective equipment		
Met ✓ Not Met X		
Read product information Unit 115 Read product information The candidate is required to read and interpret the	ı _ l .	
Interpret product information on a product label		
3.1 information and provide relevant and provide relevant and provide relevant		
information as requested by the Assessor Important information:		
3.2 • field of use		
Note to the Assessor: A ● target □ □		
product label is required. It is expected that the candidate • maximum individual dose		
will provide the product label.		
The label provided must be maximum number of treatments		
for a currently approved		
product and appropriate to the candidates normal work		
situation • operator protection □ □ □		
environmental protection		
Note to the Candidate (Assessor also to note): It is		
acceptable for key Target specific information:		
information on the label to be target		
highlighted for use during the assessment dose rate		
● water volume □ □		
Continued • timing □ □		

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	ΤE
	O.U. Z.U.	00.07.11.02	mixing and spraying:			•	
Cont			• filling				
Unit 115			recommended nozzles				
3.1			recommended pressurespray quality				
0.1			opray quanty				
3.2			additional label information				
			Met ✓ Not Met X				
Unit 44E	Identify applicator	Candidate to identify all	May include:				
Unit 115	components and controls	components and controls relating to the applicator	main spray tank				
4.1		being used for the	pump filling control and devices				
		assessment	agitation control				
			pressure adjustment control				
			pressure gauge				
			on/off control				
			boom isolators				
			• filters				
			tank wash system clean water tank				
			nozzles/atomisers/spray heads				
			diaphragm check valves				
			tank drain				
			other components/controls specific to the				
			applicator				
		Identify and explain the use	May include:				
		of one type of nozzle, which could be that intended for use	Flat flan – fine/medium/coarse spray				
		(not applicable to Rotary	Air inclusion – medium/coarse spray, low drift				
		Atomiser sprayers)	Met ✓ Not Met X				
Unit 115	Carry out pre-use checks	Candidate to carry out all	May include:				
Onit 115	to the prime mover	pre-use checks relevant to the prime mover being used	visual inspection of the wheels and tyres				
4.2		for the assessment	 tyre pressures fuel level adequate/motive batteries charged 				
			oil level(s) within acceptable limits				
			coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X				
	Carry out pre-use and	Candidate to carry out all	May include all/some of the following as applicable to				
Unit 115	operational checks to the sprayer/applicator	pre-use and operational checks to the	the sprayer/applicator:				
4.3		sprayer/applicator					
		Check security of attachment	fasteners tight				
		of applicator mechanisms	straps inspected and adjusted if necessary				
		Check for mechanical	seized, worn or damaged controls/components				
		defects	atomiser drives and electrical connectors				
		Check that the applicator is	a identification of lubrication points				
		Check that the applicator is lubricated correctly	identification of lubrication points visual inspection of lubrication points				
			visual inspection of levels				
			·				
		Check spray head attachment and break-back	height adjustment				
		devices	break-back efficiency				
		Remove, clean and refit a	Candidate to:				
		filter	remove and clean using appropriate method				
			contain spillage				
Continued			check for defects refit				
			- ।जार	Ш	Ш		

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA ⁻	TE D
		Remove, clean/replace and	Candidate to:			<u> </u>	
Cont		refit a	remove and clean using appropriate method				
Unit 115		nozzle/restrictor/spray head	contain spillage				
Onit 110		nead	check for defects				
4.3			replace if worn/damaged				
			refit				
		Explain how to use the	functions of control panel				
		control panel to ensure that the applicator is functioning	recognition of malfunctions before and during		_		
		correctly (if applicable)	operation				
			switch to manual/test mode where applicable				
		Part fill applicator or attach	suitable site selected				
		pesticide container	 fill by usual on-site method, following approved procedures 				
			clean water supply				
			• or				
			attach pesticide container				
		Check applicator for leaks	use higher than normal operating pressure				
		and correct spray patterns	use higher than normal operating pressure visual check of all nozzles/atomisers/spray heads				
			for correct spray patterns, absence of blockages,				
			streaking and pulsing				
			replace defective nozzles/atomisers/spray heads				
			lids and seals				
			pipe work and connections				
			control valves				
			• filters				
			pressure gauge				
			diaphragm check valves				
		State one suitable action in	stop pesticide application				
		the event of the control panel	manual operation of controls if possible				
		failing (if applicable)	Met ✓ Not Met X				
Unit 115	Calibrate the sprayer and record relevant data	Candidate is required to calibrate the applicator and record relevant data	Calibration may include the following:				
4.4		Select and record forward speed	suitable forward speed for target and ground conditions				
			appropriate gear selected and engine speed established (if applicable)				
			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	use of manufacturers operators handbook				
		nozzle/atomiser/spray head using manufacturers literature	use of nozzle/atomiser/spray head manufacturers literature				
		(if available)	confirm requirements of product label				
		Set operating pressure/disc	pressure as determined by nozzle chart				
		speed	disc speed as determined by manufacturers				
			literature pressurise/purge appropriate to the system				
		Check nozzle/atomiser/spray	use a measuring jug to check				
		head outputs	nozzle/atomiser/spray head output				
			compare with target output				
			vary pressure/flow rate to make small adjustments above a parallal/stemiosra/array boads if required.				
Continued			change nozzles/atomisers/spray heads if required Or any other acceptable method				
			Or any other acceptable method				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA [*]	TE
Cont		State four pieces of calibration data that should	May include:				
		be recorded	registration number of vehicletyre size and pressure				
Unit 115			gear selected				
4.4			engine speed				
			vehicle forward speed				
			application volume				
			nozzle/atomiser/spray head fitted				
			pressure/disc speedflow rate				
			Met ✓ Not Met X				
	Calculate the quantities of	Candidate to calculate	To include:				屵
Unit 5	pesticide and water	quantities required for both a	amount of water required for specified area				
4.5	required, if applicable	specified area and full tank	amount of pesticide required for specified area				
			amount of pesticide required for full tank				
			Met ✓ Not Met X				
Unit 115	Measure the required guantities and add to the	Either: Candidate to measure and	To include:				
	sprayer or attach pesticide	add quantities required for	 correct selection and use of PPE (as required by the product label and/or COSHH Assessment) 				
5.1	container	the area specified in 4.5	suitable site selected				
		Note: This may be a	fill by usual on-site method, following approved				
		simulated pesticide product	procedures				
		product	clean water supply accurate measurement of water				
			accurate measurement of pesticide				
			correct filling procedure				
			avoidance of spillage				
			observance of pesticide manufacturers instructions for mixing and agitation				
		Or:	instructions for mixing and agitation				
		Candidate to attach pesticide container to applicator	To include:				
		container to applicator	 correct selection and use of PPE (as required by the product label and/or COSHH Assessment) 				
			suitable site selected				
			container undamaged				
			correct procedure for attaching container				
			avoidance of spillage				
			check for leakage				
	Demonstrate safe and	Candidate to explain the	Met ✓ Not Met X Explanation to include:	Ш	Ш	Ш	\sqcup
Unit 115	accurate application	appropriate procedure to	avoid contact with contaminated area				
5.2	procedures	follow when the applicator needs refilling part way	mark the spot at which the applicator emptied				
5.2		through an application	refill applicator				
			 continue spraying by accurately matching at the appropriate point 				
		Candidate to explain the appropriate procedure to	Explanation to include:				
		follow when a	select and use appropriate PPE care not to walk on contaminated area				
		nozzle/restrictor/spray head becomes blocked during an	clean or replace nozzle/restrictor/spray head as				
		application	appropriate				
		Candidate to apply pesticide	To include:				
		to treat a specified area	ensure spray head is aligned to the target				
		appropriate the candidates normal work situation and	correct spray head height to achieve compliance with hard surface recommendations.				
		sufficient to demonstrate safe	with hard-surface recommendations operate controls to apply accurately				
		and accurate application procedures	 correct forward speed and pressure for site 				
			conditions				
,			coping with obstacles				
			 all of specified area treated awareness of changes in wind speed and				
			direction				
			Met ✓ Not Met X				
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Unit 115 5.3 Corry out all activities procedured pursuan health and the environment a	CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/	AND B	IDA ¹	TE D
be candidate to explain row method of dealing with waste containers and packaging Explain how to manage surplus pesticide and dispose of waste material supplus of dealing with waste containers and packaging		Carry out all activities	Note to the Assessor:			_		
Signature Candidate to explain two methods of dealing with suspice dular to explain two methods of dealing with suspice dular pessioner in surplus penticulars and packaging: Candidate to explain two methods of dealing with suspice dular pessioner in surplus	Unit 115			prevention of public / bystander contamination				
Lumi 115 Explain how to manage surplus pesticide and deposes of waste material and packaging	5.3	and the environment						
Assessmenth	3.3		human health and the	,				
Unit 115 6.1 Candidate is required to complete a treatment record survival and the second of the treatment record must be approved by the Assessor for supplied by a licensed wasted disposal contractor by the Assessor for supplied by a licensed wasted disposal contractor for supplied by a li			environment		Ιп		Ιп	
Complete a treatment record Candidate is required to complete a treatment record must be approved by the Assessor for supplied by the Assessor for excessory Candidate to explain one mentod of dealing with surplus concentrate pesticle Candidate to explain two methods of dealing with surplus concentrate pesticle Candidate to explain two methods of dealing with surplus containts and packaging Candidate to explain two methods of dealing with surplus containts and packaging Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain two methods of dealing with surplus dutre pesticle Candidate to explain four decrease Candidate to explain fou				safe filling procedure				
Candidate to explain two methods of dealing with surplus dilute posticide Candidate to explain two methods of dealing with surplus dilute posticide Candidate to explain two methods of dealing with surplus dilute posticide in returned to supplier Candidate to explain two methods of dealing with surplus dilute posticide in returned to supplier Candidate to explain two methods of dealing with surplus dilute posticide in explain two methods of dealing with surplus dilute posticide in returned to supplier Candidate to explain two methods of dealing with surplus dilute posticide in the prime mover Candidate to explain four methods of dealing with surplus dilute posticide								
Unit 115 6.1 Unit 115 Complete a treatment record complete a treatment record complete a treatment record must be approved by the Assessor of supplied supplied by the Assessor of supplied supplied and supplied and supplied supplied and supplied supplied and supplied supp				avoidance of off target application				
Candidate to explain two methods of dealing with surplus dilute pesticide to explain two methods of dealing with surplus dilute pesticide and dispose of waste material Candidate to explain two methods of dealing with surplus dilute pesticide to explain two methods of dealing with surplus dilute pesticide and dispose of waste material Candidate to explain two methods of dealing with waste containers and packaging Candidate to explain two methods of dealing with waste containers and packaging Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to explain two methods of dealing with surplus dilute pesticide Candidate to expla								
Complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor)				Met ✓ Not Met X				
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Su	ımmary of Assessment (The Assessor is to complete the f	iollowing as ap	opropriate)	
Candidate A	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 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	ruse by Internal Verifier ONLY if the assessment process	was internally	· verified	

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.	Tick
I observed an assessment process taking place. The following were noted as areas of concern.	Tick ✓
Signed: Date:	