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)		Operating Mounted, Trailed and Self Propelled Hydraulic Nozzle or Rotary Atomiser Horizontal Boom Sprayers (PA2A) (D/505/7664) Operating Mounted, Trailed and Self Propelled Air
	1 1 3	 / Fluid Nozzle Horizontal Boom Sprayers (PA2C) ((M505/7667) Operating Mounted, Trailed and Self Propelled Downward Air Assisted Horizontal Boom Sprayers
	1 1 4 1 1 5	(PA2E) (M/505/7670) Operating Mounted or Trailed Wick Type Applicators (PA2F) (F/506/8298) Operating Vehicle Mounted Kerb Sprayers Fitted with Hydraulic Nozzles/Rotary Atomisers (PA2AR) (D/505/7681)
Guided Learning Hours (GLH)		54
Total Qualification Time (TQT)		60
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
1.2 April 2022	GLH & TQT Clarified and highlighted	Qualification at a glance
	City & Guilds address revised	Pg 6

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.

Training

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

Total Qualification Time

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

Access to Assessment

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

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

The assessment consists of **five** optional units:

Unit 111 – PA	2A	(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 envir Be able to read and interpr Be able to prepare and cal Be able to operate the app		4.1 – 4.5) 1 – 5.4)
Unit 112 – PA	2C	(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 envir Be able to read and interpr Be able to prepare and cal Be able to operate the app		4.1 – 4.5) 1 – 5.4)
Unit 113 – PA	2E	(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 envir Be able to read and interpr Be able to prepare and cal Be able to operate the app		4.1 – 4.5) 1 – 5.4)

Unit 114 – PA2F	(Optional)	(Credit Value)	(Print pages 28 – 33 plus 40)
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the er Be able to read and inter Be able to prepare and o Be able to operate the a		riteria 4.1 – 4.5) teria 5.1 – 5.4)
Unit 115 – PA2AR	(Optional)	(Credit Value)	(Print pages 34 – 40)
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the er Be able to read and inter Be able to prepare and o Be able to operate the a	, , , , , , , , , , , , , , , , , , , ,	riteria 4.1 – 4.5) teria 5.1 – 5.4)

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

(**C** (¹)

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

Horizon	tal	Boom Sprayers	5 (PA2A)								
Candidate	Α	Name:		Date:		Start Time:	Dura	ation):		
Candidate	B	Name:		Date:		Start Time:	Dura	ation	:		
Candidate	e C	Name:		Date:		Start Time:	Dura	ation:			
Candidate	Đ	Name:		Date:		Start Time:	Dura	ation	:		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C. A	AND B	IDA1 C	re D
Unit 111 1.1	requ app	scribe the legal uirements relating to lying pesticides using zontal boom sprayers	Candidate to describe two operator's obligations in terms of legal requirements	•	complies with leg	ds are in place and equipm gal requirements elevant road traffic regulatic					
				•	when operating highway	or transporting on the public Plant Protection Products					
				•	(Sustainable Use the operator mus	e) Regulations 2012 st hold the appropriate he equipment they are using	a				
						Met√ Not	Met X				
Unit 111 1.2	pes hori follo	cribe how to apply ticides safely using zontal boom sprayers wing industry best	Candidate to describe on operator safety regulation terms of using horizontal boom sprayers	in •	adopt industry be	•	d by				
	Candidate to describe tw precautions the operator r take to protect self from pesticide contamination w operating the prime move	 be aware of any safety implicat Risk/COSHH assessment and requirements 									
		hen	close all windows contaminated Pf awareness of the	n system is functional							
				•	components with cab/canopy/platf	te PPE e siting of pressurised nin confines of					
			When preparing the prime mover and sprayer, the candidate is to describe three checks which the operator may carry out to protect self from physical danger during operation	Ma • • •	y include: compatibility of p front weights wheel track widtl correct tyre pres condition of tyres brake function	sures					
			Candidate to state four aspects of safe practice to considered when driving o uneven/sloping terrain	be • on • • • • • • • •	use of weights to correct turning p keep centre of g	l drive ed ection Ig load on stability o stabilise prime mover					
			Candidate to state one consideration for safe drivi on a public highway			kes coupled together speed makes vehicle unsta Met ✓ Not					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA [®]	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				
			drains				
			boreholes				
			wildlife				
			non-target plants sensitive crops/areas				
			hedgerowshousing				
			 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		111 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 pesticide (minimal	_	_	_	
			environmental impact)				
			appropriate timing of application				
		Candidate to state the	 avoidance of contamination to people and the 				
		reason for minimising spray	environment				
		drift or off target application					
		Candidate to check and comment on wind speed and	 use of an anemometer at suitable height or visual signs 				
		direction	wind direction				
		Candidate to state five	May include:				
		factors that affect spray drift	weather conditions				
			 direction of spraying 				
			nozzle type and size				
			• pressure				
			forward speed				
			boom height				
			 rotary atomiser speed 				
			defective equipment				
			Met ✓ Not Met X				
	Read product information	The candidate is required to	May include the following:				
Unit 111	latemant and deat	read and interpret the	product name				
2.4	Interpret product information	information on a product label and provide relevant	 active substance(s) (ingredient(s)) 				
3.1	momaton	information as requested by					
Unit 111		the Assessor	Important information: field of use	_	_	_	
•		Note to the Assessor: A					
3.2		product label is required. It is	crop/target maximum individual dose				
		expected that the candidate	 maximum individual dose maximum total dose 				
		will provide the product label. The label provided must be					
		for a currently approved	maximum number of treatments				
		product and appropriate to	 specific product precautions/warnings 				
		the candidates normal work	 operator protection 				
		situation	 environmental protection 				
		Note to the Candidate	 restrictions on use 				
		(Assessor also to note): It is					
		acceptable for key information on the label to be	Crop specific information:				
		highlighted for use during the	• crop/target				
		assessment	dose rate				
Continued			water volume				
			 timing 				

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CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA C	TE D
Cont Unit 111 3.1			Mixing and spraying: filling reduced volume applications (if applicable) recommended nozzles recommended pressure spray quality				
Unit 111 3.2			 additional label information compatibility Met ✓ Not Met X 				
Unit 111 4.1	Identify applicator components and controls	Candidate to identify all components and controls relating to the applicator being used for the assessment	May include: main spray tank pump 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 of two types of nozzle, one of which could be that intended for use (not applicable to Rotary Atomiser sprayers)	May include: • flat fan – fine/medium/coarse spray • air inclusion – medium/coarse spray, low-drift • cone – fine spray, good coverage Met ✓ Not Met X				
Unit 111 4.2	Carry out pre-use checks to the prime mover	Candidate to carry out all pre-use checks relevant to the prime mover being used for the assessment	 May include: guards in place and in good condition 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 adequate engine air filter is clean 				
Unit 111 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 Check security of attachment of applicator mechanisms	 May include all/some of the following as applicable to the sprayer/applicator: safe unfolding of booms to avoid personal contamination and contact with Over Head Power Lines (OHPL) and any other overhead hazards fasteners tight straps inspected and adjusted if necessary linkage secure sideways movement restricted drawbar pin secured seized worn or damaged controls/components 				
Continued		Check for mechanical defects	 seized, worn or damaged controls/components atomiser drives and electrical connectors 				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA C	TE D
Cont		Check that the applicator is lubricated correctly	identification of lubrication points				
			 visual inspection of lubrication points visual inspection of levels 				
Unit 111			visual inspection of levels				
4.3		Check boom settings,	boom suspension operational				
		suspension and break-back devices	 break-back efficiency height adjustment 				
		Remove, clean and refit a filter	Candidate to: • remove and clean using appropriate method				
			 contain spillage 				
			check for defects, replace if damaged				
			• refit				
		Remove, clean/replace and	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:				
		the applicator is functioning	 functions of control panel recognition of malfunctions before and during 				
		correctly (if applicable)	operation				
			check 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 selected				
			• use higher than normal operating pressure				
			 visual check of all nozzles/atomisers for correct spray patterns, absence of blockages, streaking, pulsing 				
			correct alignment				
			replace defective nozzles/atomisers/discs				
			lids and seals				
			pipe work and connectionscontrol valves				
			 filters 				
			pressure gauge				
			diaphragm check valves				
		State one suitable action in	May include:				
		the event of the control panel failing (if applicable)	stop pesticide application				
			manual 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 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 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 D
Cont		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	registration number of vehicle				
		be recorded	tyre size and pressure				
			gear selected				
			engine speed				
			vehicle forward speed				
			application volume				
			nozzle/atomiser fitted				
			pressure/disc speed				
			flow rate				
			Met ✓ Not Met X				
Unit 111	Calculate the quantities of pesticide and water	Candidate to calculate quantities required for both a	To include:				
onic m	required	specified area and full tank	 amount of water required for specified area amount of pesticide required for specified area 				
4.5							
	Measure the required	Candidate to measure and	Met ✓ Not Met X				
Unit 111	quantities and add to the	add quantities required for					
	sprayer	the area specified in 4.5	 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) 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				
Unit 111	Demonstrate safe and accurate application	Candidate to describe two possible methods to achieve	May include any of the following:				
•	procedures	accurate application	tramlines crop rows				
5.2			 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	• mark the location at which the applicator emptied				
			refill applicator				
		through an application					
			 continue spraying by accurately matching at the appropriate point 				
		Candidate to explain the	 continue spraying by accurately matching at the appropriate point Explanation to include: 				
			 continue spraying by accurately matching at the appropriate point Explanation to include: select and use appropriate PPE 				
		Candidate to explain the appropriate procedure to	 continue spraying by accurately matching at the appropriate point Explanation to include: 				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	С	AND		ГЕ
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Cont		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 sufficient to demonstrate safe	 correct boom height according to target and type of nozzle 				
5.2		and accurate application	 operate controls to start and finish applying 				
J.Z		procedures	accurately at the beginning and end of each bout				
			 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 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	 prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment) 				
		environment	 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 				
			• 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				
5.4		Note to the Assessor: The	 legible (if handwritten) 				
0.4		treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	Met ✔ Not Met X				
	Explain how to manage	Candidate to explain one	May include:				1
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	Containers:			_	_
		methods of dealing with waste containers or	triple rinsed				
		packaging	placed in secure storage until disposal				
			returned to supplier				
			collected by licensed waste contractor				
			Packaging:				
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by 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 licensed waste disposal contractor				
	1	1	Met ✓ Not Met X				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDAT	ΓE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Explain how to clean and	Candidate to explain four	May include:				
Unit 111	decontaminate the sprayer	factors that need to be	 select and use appropriate PPE 				
6.2	and, if applicable, the prime mover	considered when cleaning and decontaminating the	appropriate site				
0.2	P	sprayer and, if applicable, the prime mover	 thorough washing with water and suitable cleaning agent (if recommended/required) interval and automal surfaces 				
			internal and external surfaces				
			use of in-built wash systems if provided				
			• care to ensure contamination 'hot-spots' are clean				
			 thorough flushing of systems 				
			 safe disposal of contaminated washings 				
			 when cleaning should take place 				
		 safe procedures followed 					
			Met ✓ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 111	requirements for the	factors to consider prior to storing the applicator	 ensure the applicator is clean and dry 				
6.3	sprayer	storing the applicator	 inspect for wear and damage 				
0.5			 replace any worn or damaged parts 				
			 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	•	A2C) Name:		Date:	Start Time:	Dura	ation	:		
Candidate	B	Name:		Date:	Start Time:	Dura	ation):		
Candidate	C	Name:		Date:	Start Time:	Duratio):		
Candidate	D	Name:		Date:	Start Time:	Dura	ation):		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE		ASSESSMENT ACTIVITIES		C. A	AND B	IDA C	ГЕ D
Unit 112 1.1	requ app hori	scribe 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	all requi complie	ired guards are in place and equipn s with legal requirements with all relevant road traffic regulati					
	WIG			 highway comply 	with The Plant Protection Products					
				the oper	nable Use) Regulations 2012 rator must hold the appropriate ttion for the equipment they are usir	ng				
					Met√ No	t Met X				
Unit 112 1.2	pes hori follo	scribe how to apply ticides safely using zontal boom sprayers owing industry best ctice	Candidate to describe one operator safety regulation i terms of using horizontal boom sprayers	n comply adopt in be awar	with Pesticides Codes of Practice adustry best practice re of any safety implications impose DSHH Assessment and comply with nents	ed by In the				
			Candidate to describe two precautions the operator m take to protect self from pesticide contamination wh operating the prime mover	hay fit carbo use of ir ensure close all contami awarene compon Open cab/car use of a awarene compon	on filter n-cab controls ventilation system is functional I windows inated PPE stored in external locke ess of the siting of pressurised nents within confines of the cab nopy/platform: uppropriate PPE ess of the siting of pressurised nents within confines of the iopy/platform	r				
			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	front wewheel trcorrect to	ibility of prime mover and sprayer eights rack width tyre pressures on of tyres					
			Candidate to state four aspects of safe practice to considered when driving o uneven/sloping terrain	n select fo appropr correct g effect of use of w correct f	conditions our wheel drive (if fitted) iate speed gear selection f changing load on stability veights to stabilise prime mover turning procedure entre of gravity as low as possible					
			Candidate to state one consideration for safe drivin on a public highway		ndent brakes coupled together ng at high speed makes vehicle uns Met ✓ No					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA C	TE D
Unit 112	Identify risks to the environment	Candidate to identify all relevant risks to the	May include: • ground conditions				
		environment for the	water courses				
2.1		application site	 environmental margins/strips/areas 				
			drains				
			boreholes				
			wildlife				
			non-target plants				
			sensitive crops/areas				
			hedgerows				
			housing				
			public access				
			 other risks particular to the site 				
			Met ✔ Not Met X				
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: • check and maintain application rate				
0		in 2.1					
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				
			3				
		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 spraying				
			restrictor size				
			air pressure				
			fluid pressure forward appared				
			 forward speed boom height 				
			5				
			defective equipment				
	Read product information	The candidate is required to	Met ✓ Not Met X				
Unit 112	Read product information	read and interpret the	The following to be provided: • product name				
3.1	Interpret product information	information on a product label and provide relevant	 active substance(s) (ingredient(s)) 				
3.1	inioination	information as requested by the Assessor	Important information:				
Unit 112		THE ASSESSO	field of use				
3.2		Note to the Assessor: A	crop/target				
3.2		product label is required. It is	maximum individual dose				
		expected that the candidate will provide the product label	maximum total dose				
			maximum number of treatments				
		The label provided must be for a currently approved					
		product and appropriate to	specific product precautions/warnings				
		the candidates normal work	operator protection onvironmental protection				
		situation	environmental protection				
		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				
		assessment	water volume				
Continued			• timing				

Cont Mixing and spraying: Unit 112 • filling 3.1 • recommended nozzles/restrictors Unit 112 • spray quality • additional label information • compatibility		
Unit 112 • reduced volume applications (if applicable) 3.1 • recommended nozzles/restrictors Unit 112 • spray quality • additional label information		
3.1 • recommended nozzles/restrictors Unit 112 • spray quality • additional label information		
Unit 112 spray quality additional label information		
Unit 112 additional label information additional label information		
• compatibility	_	
3.2		
Met ✓ Not Met X Identify applicator Candidate to identify all		
Unit 112 components and controls components and controls • main spray tank		
4.1 relating to the applicator being used for the pump		
assessment • compressor		
air inlet		
pressure relief device		
pulsation damper		
 filling control and devices 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		
tank wash system		
clean water tank		
nozzle flow restrictors		
nozzle flood jets		
diaphragm check valves		
 tank drain other components/controls specific to the 		
applicator		
Identify and explain the use May include: Of two sizes of nozzle arcon (35) 50 120 l/ba Low volume application		
restrictor one of which could		
 blue (40) 60 -150 l/ha. Medium volume application vellow (50) - 90-250 l/ha. High volume application 		
Met ✓ Not Met X		
Carry out pre-use checks Candidate to carry out all May include: Unit 112 to the prime mover pre-use checks relevant to guards in place and in good condition 		
the prime mover being used		
4.2 for the assessment • tyre pressures		
fuel level adequate		
engine oil level is within acceptable limits		
hydraulic oil level is within acceptable limits (if accessible)		
 transmission oil level is within acceptable limits (if 		
accessible)		
coolant level is adequate		
engine air filter is clean		
Met ✓ Not Met X		
Unit 112Carry out pre-use and operational checks to the sprayerCandidate to carry out all pre-use and operational 		
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		
Iinkage secure		
sideways movement restricted		
drawbar pin secured		

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA [.]	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				
4.3			visual inspection of levels				
		Check boom settings,	boom suspension operational				
		suspension and break-back devices	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	Candidate to:				
		refit a nozzle restrictor and	 remove and clean using appropriate method 				
		flood jet	contain spillage				
			check for defects				
			replace if worn/damaged				
			• refit				
		Explain how to use the	May include:				
		control panel to ensure that	 functions of control panel 				
		the applicator is functioning correctly (if applicable)	 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 leaks	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 seals liquid and air pipe work and connections 				
			 control valves 				
			 filters 				
			 liquid and air 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				
	Calibrate the sprayer and	Candidate is required to	Calibration may include the following:				
Unit 112 4.4	record relevant data	calibrate the applicator and record relevant data					
4.4		Select and record forward 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 				
Continued		Calculate required output/volume rate	correct use of formula				

Cont	NUMBER	CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	A	AND B	C	
Unit 112 and the second of the second	Cont		restrictor using manufacturers					
Unit 112 5.1 Calculate the quantifies of a specified area and full tank springer Candidate to describe too springer Candidate to describe too springer To include: springer To i	Unit 112		literature (if available)					
Unit 112 5.1 Calculates the quantities of opersortical construction of specified area simulated persortical table and or COSH+ Assessment) opersortical required for specified area simulated persortical construction of specified area simulated persortical construction constru	4.4							
Unit 112 15.1 Calculate the quantilies of quantifies and add to the parsapplication Candidate to calculate quantifies and add to the product To include: quantifies and add to the product hele application product To include: quantifies and add to the product hele application product To include: quantifies and add to the product hele application the application product hele application product To include: quantifies and add to the product hele application product possible and application product I				pressurise/purge appropriate to the system				
Unit 112 4.5 Calculate the equindle sprover basic and young of the equind to the sprover basic and provide to a specified area simulated possicide product I o the sprover basic and add quantities required for basic specified area and full tank specified area and full tank specified area and full tank sprover basic and add quantities required for basic simulated possicide product I o the sprover basic and add quantities required for basic specified area and add quantities required for basic specified area and simulated possic and simulated possic and sprover basic and add quantities required for basic specified area and specified			Check nozzle outputs	one nozzle per boom section (minimum of three				
Unit 112 4.5 Calculate the quantities of product or as pocified area and full tank specified area and full tank associated duantities required for the area specified in 4.5 Calculate the quantities of quantities required for the area specified in 4.5 Calculate the quantities of quantities required for the area specified in 4.5 Calculate the quantities of quantities required for the area specified in 4.5 Calculate the required to require specified area simulated pesticide product Calculate the quantities of quantities required for the area specified in 4.5 Calculate the required to required for specified area simulated pesticide quantities required for the area specified in 4.5 Calculate the required to required for specified area simulated pesticide quantities required for the area specified in 4.5 Calculate the required to required for the area specified in 4.5 Cancidate to measure and simulated pesticide product Cancidate to describe two the area specified in 4.5 Cancidate to describe two the area specified in 4.5 Unit 112 5.1 Demonstrate specified area simulated pesticide product Cancidate to describe two correct aslection and use of PPE (as required by the product abeal and/or COSH + Assessment) the area specified in 4.5 Image: Cancidate to describe two correct aslection and use of PPE (as required by the product abeal and/or COSH + Assessment) the area specified in 4.5 Unit 112 5.2 Demonstrate specifies and correct aslection and use of PPE (as required by correct areassment of vaster instructors for making and agatation correct aslection and use of PPE (as required by correct areassment of vaster instructors for making and agatation correct aslection and use of PPE (as requ				compare with target output				
Unit 112 Calculate the quantities of quantities required for solution and add to the aspecified area and full tank To include: Image: Calculate the quantities of quantities required for solution area aspecified area and full tank To include: Image: Calculate the quantities of quantities required for solution area aspecified area and full tank To include: Image: Calculate the quantities of the solution area aspecified area and full tank Image: Calculate the quantities of the solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate the quantities required for solution area aspecified area and full tank Image: Calculate to required for solution area aspecified area and full tank Image: Calculate tank								
Unit 112 5.1 Calculate the quantities of calculate the quantities of quantities required for both a secified area and full tank To include: 				required				
Unit 112 4.5 Calculate the quantities of pesticide and water required for a specified a specified in 4.5 Calculate the required quantities required for both specified in 4.5 To include: noncont of water required for specified area secret selected Image: content selected quantities required for both specified in 4.5 Unit 112 4.5 Calculate the required pesticide and water required for a specified a specified in 4.5 Candidate to calculate quantities required for both specified in 4.5 To include: Net ~ Not Met X Image: content selected quantities required for both specified in 4.5 Unit 112 4.5 Measure the required quantities required for both specified in 4.5 Candidate to measure and quantities required for both specified in 4.5 To include: Net ~ Not Met X Image: content selection the area specified in 4.5 0.1 Candidate to measure and product Candidate to measure and product specified area anount of pesticide required for both the area specified in 4.5 Image: content selection the area specified in 4.5 Image: content selection the area specified in 4.5 5.1 Measure the required quantities required for specified measure apply Candidate to describe two product Image: content selection the area specified in 4.5 5.2 Demonstrate selection product Candidate to describe two possible methods to achieve accurate measurement of water quantities and add to the product Image: content selection quantities required for transfor dyss; quantities and realing procedure quantities and realized possible methods to				or any other acceptable method				
unit 112 Calculate the quantities of equired for specified area and full tank area specified area and tand to the sparer Conclude: Conclude: Conclude: Conclude: Conclude: Conclude: Concret selection and use of PPE (as required by the product table and or COSHH Assessment) Concret selection and use of PPE (as required by the product table and or COSHH Assessment) Concret selection and use of PPE (as required by the product table and or COSHH Assessment) Concret selection and use of PPE (as required by the product table and or COSHH Assessment) Concret selection and use of PPE (as required by the product table and or COSHH Assessment) Concret selection and use of PPE (as required by the product table and or COSHH Assessment) Concret selection and use of PPE (as required by the product table and or COSHH Assessment)			-					
Unit 112 4.5 Calculate the quantifies of required for a specified an pressure required for a specified and quantifies required for both as <u>specified area</u> and <u>full tank</u> . Candidate to calculate quantifies required for both as <u>pecified area</u> and <u>full tank</u> . To include: a amount of water required for specified area amount of pesticide required for specified area amount of pesticide required for specified area amount of pesticide required for full tank. Image: Calculate the required quantifies required for a specified area specified in 4.5 Candidate to measure and add quantifies required for the area specified in 4.5 To include: amount of pesticide required for full tank amount of pesticide required for full tank accurate measurement of water accurate measurement of water accurate measurement of water accurate measurement of water accurate measurement of pesticide avoidance of splitage accurate measurement of the following accurate application procedures Image: full tank accurate measurement of the following accurate application accurate application accurate application accurate application accurate application accurate application accurate application accurate application accurate application accurate				0	_			
Intersection of the engine speed engine speed engine speed application volume amount of vater required for specified area amount of pesticide required for specified area amount of pesticide required for specified area amount of pesticide required for tull tank accurate measurement of water accurate measurement of water accurate measurement of pesticide accurate measurement of pesticide accurate measurement of pesticide avoidance o								
Unit 112 Calculate the quantities of required for a specified area and full tank area aspecified in 4.5 To include:				engine speed				
Unit 112 Calculate the required or a specified area area Candidate to calculate or quantities required for both a specified area area Candidate to calculate or quantities required for specified area area Candidate to calculate or quantities required for specified area area Candidate to calculate or quantities required for specified area area Candidate to calculate or quantities required for specified area area Candidate to calculate or quantities required for specified area Candidate to calculate or quantities required for specified area Candidate to calculate or quantities required for specified area Candidate to calculate or quantities required for the area specified in 4.5 Measure the required Candidate to measure and the area specified in 4.5 To include: Correct specified area or or or specified area and the area specified in 4.5 Corect specified area and the area specified in 4.5 5.1 Measure the required or the area specified in 4.5 Note: This may be a simulated pesticide required of product Correct filling procedure Canculate measurement of pesticide area and accurate measurement of pesticide area and accurate measurement of pesticide area and area area correct measurement of pesticide area and accurate measurement of pesticide area and accurate measurement of pesticide area area area or or or or specified area and accurate measurement of pesticide area area area area or area area area								
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Unit 112 Calculate the quantities of pesticide and water required for a specified area and full tank area Candidate to calculate quantities required for both a specified area and full tank area To include: amount of pesticide required for specified area and full tank area IIII and pesticide required for specified area and full tank area IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								
Unit 112 Calculate the quantities of pesticide and water required for a specified area and full tank required for a specified area and full tank area specified in 4.5 To include: amount of vaster required for specified area amount of pesticide required for full tank Image: Imag								
Unit 112 Calculate the quantities of pesticide and water required for a specified area area Candidate to calculate quantities required for specified area area and full tank To include: amount of water required for specified area area and full tank Image: Candidate to area and full tank Image: Candidate								
Unit 112 Calculate the quantities of pesticide and water required for specified area and full tank area To include: amount of water required for specified area amount of pesticide required for full tank met Unit 112 Measure the required for a specified in 4.5 Candidate to measure and add quantities required for 4.5 Measure the required or the area specified in 4.5 5.1 Measure the required product bale and/or COSHH Assessment) Image: correct selection and use of PPE (as required by the product bale and/or COSHH Assessment) Image: correct selection and use of PPE (as required by the product bale and/or COSHH Assessment) 5.1 Note: This may be a simulated pesticide product Image: correct selection and use of PPE (as required by the product bale and/or COSHH Assessment) Image: correct selection and use of PPE (as required by the product bale and/or COSHH Assessment) Unit 112 Demonstrate safe and accurate measurement of valter Image: correct selection and use of PPE (as required by the product bale and/or COSHH Assessment) Image: correct selection and use of PPE (as required by the product bale and/or COSHH Assessment) Unit 112 Demonstrate safe and accurate me								
Unit 112 A.5 pesticide and water required for a specified area area quantities required for both a specified area and full tank • amount of water required for specified area amount of pesticide required for specified area 0 0 0 4.5 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 COSHIH Assessment) 0 <td< td=""><td></td><td>Calculate the quantities of</td><td>Candidate to calculate</td><td></td><td></td><td></td><td></td><td>⊢</td></td<>		Calculate the quantities of	Candidate to calculate					⊢
4.5 area area correct selection and use of PPE (as required by the product label and/or COSHH Assessment) correct selected fill by usual on-site method, following approved procedures <l< td=""><td>Unit 112</td><td>pesticide and water</td><td></td><td> amount of water required for specified area </td><td></td><td></td><td></td><td></td></l<>	Unit 112	pesticide and water		 amount of water required for specified area 				
Unit 112 Measure the required Candidate to measure and add quantities required for the area specified in 4.5 To include: Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or COSHH Assessment) Image: Context selection and use of PPE (as required by the product label and/or CosH Assessment) Image: Cont		• •	specified area and full tank	 amount of pesticide required for specified area 				
Unit 112 quantities and add to the sprayer Candidate to measure and add quantities required for the area specified in 4.5 To include: -	-110			 amount of pesticide required for full tank 				
Unit 112 sprayer quantities and add to the sprayer add quantities required for the area specified in 4.5 • correct selection and use of PPE (as required by the product label and/or COSHH Assessment) • • • • • • • • • • • • • • • • • • •								
5.1 sprayer the area specified in 4.5 the product label and/or COSHH Assessment)		•						
Unit 112 Demonstrate safe and accurate application procedures Candidate to describe two possible methods to achieve accurate measurement of pesticide methods following: May include any of the following: I		sprayer	the area specified in 4.5	the product label and/or COSHH Assessment)				
Unit 112 Demonstrate safe and accurate application procedures Candidate to describe two possible methods to achieve accurate application procedure to follow when the applicator needs refilling part way through an application May include any of the following; or possible methods to achieve accurate applicator needs refilling part way through an applicator May include any of the following; or possible methods to achieve accurate applicator needs refilling part way through an application May include any of the following; or possible methods to achieve accurate applicator needs refilling part way through an application May include any of the following; or possible methods to achieve accurate applicator needs refilling part way through an applicator May include any of the following; or possible methods to achieve accurate applicator needs refilling part way through an applicator May include any of the following; or possible methods to achieve accurate applicator needs refilling part way through an applicator Image: Candidate to explain the applicator or mark the spot at which the applicator emptied or possible methods to include: or possible methods to possible methods tore possible methods to	5.1							
Unit 112 Demonstrate safe and accurate application procedure Candidate to describe two possible methods to achieve accurate application May include any of the following: tramlines Image: tramline			•					
Unit 112 Demonstrate safe and accurate application procedures Candidate to explain the application procedure to follow when the applicator needs refilling part way through an application May include any of the following; or possible methods to achieve accurate application procedure to follow when the applicator needs refilling part way through an application May include any of the following; or possible methods to achieve accurate application procedure to follow when the applicator needs refilling part way through an applicator May include any of the following; or possible methods to achieve accurate application procedure to follow when the applicator needs refilling part way through an applicator May include any of the following; or possible methods to achieve accurate applicator needs refilling part way through an applicator May include any of the following; or possible methods to achieve accurate applicator Image: marker dyes 5.2 Candidate to explain the applicator needs refilling part way through an applicator Candidate to explain the applicator needs refilling part way through an applicator Image: marker dyes Image: marker dyes 6 Candidate to explain the applicator needs refilling part way through an applicator Image: marker dyes Image: marker dyes Image: marker dyes 6 Candidate to explain the applicator needs refilling part way through an applicator Image: marker dyes Image: marker dyes Image: marker dyes 6 Continue spraying by accurately matching at the Image: marker dyes Image: marker dyes			product	•				
Unit 112 Demonstrate safe and accurate application procedures Candidate to describe two possible methods to achieve accurate application May include any of the following; Image: Continue spraying by accurately matching at the Image: Continue spraying by accurately matching at the				accurate measurement of water				
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Unit 112 Demonstrate safe and accurate application procedures Candidate to describe two possible methods to achieve accurate application May include any of the following; Image:								
Unit 112 Demonstrate safe and accurate application procedures Candidate to describe two possible methods to achieve accurate application May include any of the following; or or or or ows I <td< td=""><td></td><td></td><td></td><td>-</td><td>_</td><td></td><td></td><td></td></td<>				-	_			
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Unit 112 Demonstrate safe and accurate application procedures Candidate to describe two possible methods to achieve accurate application May include any of the following; I <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
Unit 112 accurate application possible methods to achieve accurate application itramlines i				Met ✔ Not Met X				
5.2 accurate application accurate application accurate application accurate application 5.2 accurate application accurate application accurate application accurate application 6 crop rows accurate application accurate application accurate application accurate application 6 crop rows accurate application accurate application accurate application accurate applicator 6 continued accurate applicator accurate applicator accurate applicator accurate applicator 7 continued accurate application accurate applicator accurate applicator accurate applicator 7 continued accurate application accurate applicator accurate applicator accurate applicator 7 continue spraying by accurately matching at the accurate applicator accurate applicator accurate applicator				, , , , , , , , , , , , , , , , , , , ,				\vdash
5.2 Image: Continued Image: Continue spraying by accurately matching at the Image: C			•					
Continued • marker poles • marker oples • • marker dyes • marker dyes • • • • • • • • • • • • • • • • • • •		P.00000100		•				
 marker dyes use of GPS use of GPS use of contact with contaminated crop use of contact with co								
Candidate to explain the appropriate procedure to follow when the applicator needs refilling part way through an application • use of GPS □								
appropriate procedure to follow when the applicator needs refilling part way through an application • avoid contact with contaminated crop □								
appropriate procedure to follow when the applicator needs refilling part way through an application • avoid contact with contaminated crop □			Candidate to explain the	Explanation to include:				
follow when the applicator needs refilling part way through an application • mark the spot at which the applicator emptied □			appropriate procedure to					
Continued • refill applicator □								
	Continued			 continue spraying by accurately matching at the appropriate point 				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA ⁻	TE D
		Candidate to explain the	Explanation to include:			-	<u> </u>
Cont		appropriate procedure to	 select and use appropriate PPE 				
Unit 112		follow when a nozzle restrictor or flood jet becomes	 care not to walk in contaminated crop 				
		blocked during an application	clean or replace nozzle restrictor or flood jet as			_	
5.2			appropriate				
		Candidate to apply pesticide	To include:				
		to treat a specified area	 ensure boom is level or aligned to the target 				
		appropriate the candidates normal work situation and	 correct boom height according to target and type 				
		sufficient enough to demonstrate safe and	of nozzle				
			 operate controls to start and finish applying accurately at the beginning and end of each bout 			_	
		accurate application procedures	 correct forward speed and pressure for site 				
		p	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				\square
	Carry out all activities	Note to the Assessor:	To include:	<u> </u>	<u> </u>		<u> </u>
Unit 112	protecting human health	Assessor to be satisfied that	• prevention of personal injury and contamination				
5.3	and the environment	the candidate has carried out all activities protecting	through correct selection and use of PPE (as				
5.5		human health and the	required by the product label and/or COSHH Assessment)				
		environment	 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 112	Complete a treatment record	Candidate is required to complete a treatment record	Completion of the treatment record must be: • accurate				
0			 legible (if handwritten) 				
5.4		Note to the Assessor: The treatment record must be	3 ()				
		approved by the Assessor (or supplied by the Assessor if necessary)	Met ✓ Not Met X				
Unit 112	Explain how to manage surplus pesticide and	Candidate to explain one method of dealing with	May include:				
0111112	dispose of waste material	surplus concentrate pesticide	return to temporary mobile store				
6.1			return to fixed store				
		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 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				
			Met ✓ Not Met X				
	1	1					

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDAT	ΓE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Explain how to clean and	Candidate to explain four	May include:			ĺ	
Unit 112	decontaminate the sprayer and, if applicable, the	factors need to be considered when cleaning and	 select and use appropriate PPE 				
6.2	prime mover	decontaminating the sprayer	appropriate site				
0.2	F	and, if applicable, the prime mover	 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				
11-14 440	Describe the storage	Candidate to describe three	May include:				
Unit 112	requirements for the sprayer	factors to consider prior to storing the applicator	 ensure the applicator is clean and dry 				
6.3	spidyer	storing the applicator	 inspect for wear and damage 				
0.0			 replace any worn or damaged parts 				
			 controls left in appropriate positions 				
			 frost protection measures implemented 				
			Iubricate as required				
			 store undercover and out of direct sunlight 				
			store in a secure area				
			Met ✓ Not Met X				

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

Candidate	Α	Name:		Date:		Start Time:	Dura	atior	1:				
Candidate	в	Name:		Date:		Start Time:	Dura	Ouration:					
Candidate	С	Name:		Date:		Start Time:	Dura	atior):				
Candidate	D	Name:		Date:		Start Time:	Dura	atior	1:				
CRITERIA		ASSESSMENT	ASSESSOR			SSESSMENT			AND				
NUMBER Unit 113 1.1	requ app	CRITERIA scribe the legal uirements relating to lying pesticides using zontal boom sprayers	GUIDANCE Candidate to describe two operator's obligations in terms of legal requirements	•	ay include: all required guar complies with le comply with all r when operating highway comply with The (Sustainable Us the operator mu	ACTIVITIES ds are in place and equipn gal requirements elevant road traffic regulati or transporting on the pub Plant Protection Products e) Regulations 2012 st hold the appropriate he equipment they are usir	ons lic						
						Met√ No	t Met X						
Unit 113 1.2	pes hori follo	scribe how to apply ticides safely using izontal boom sprayers owing industry best ctice	Candidate to describe on operator safety regulation terms of using horizontal boom sprayers		adopt industry b be aware of any	ticides Codes of Practice est practice safety implications impose sessment and comply with					[
μι Α		Candidate to describe tw precautions the operator r take to protect self from pesticide contamination w operating the prime move	nay nen • • •	close all window contaminated Pl awareness of th components with pen cab/canopy/pla use of appropria	on system is functional s PE stored in external locke e siting of pressurised hin confines of the cab tform:	r							
						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	Ma • •	ay include: compatibility of p front weights wheel track widt correct tyre pres condition of tyres brake function	sures					[[[[
			Candidate to state four aspects of safe practice to considered when driving o uneven/sloping terrain	be •	use of weights to correct turning p	el drive (if fitted) ed ection ng load on stability o stabilise prime mover							
			Candidate to state one consideration for safe drivi on a public highway		ay include: independent bra	kes coupled together speed makes vehicle uns Met ✓ No							

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA C	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				
2.1			 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	 check and maintain application rate 				
		in 2.1	 avoid spray drift 				
2.2			 observe buffer zones 				
			 comply with LERAP requirements 				
			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				
		reason for minimising spray	environment				
		drift or off 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				
			inquia procedio				
			forward speed				
			boom height				
			defective equipment				
			Met ✓ Not Met X				
	Read product information	The candidate is required to	The following to be provided:				
Unit 113		read and interpret the	product name				
• •		information on a product label	 active substance(s) (ingredient(s)) 				
3.1		and provide relevant 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 expected that the candidate	field of use				
3.2		will provide the product label.	crop/target				
J.2		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 (Assessor also to note): It is	operator protection				
		acceptable for key	environmental protection				
		information on the label to be	 restrictions on use 				
Continued		highlighted for use during the	restrictions on use				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES Crop specific information:	Α	В	С	D
Cont			 crop/target 				
			 dose rate 				
Unit 113			water volume				
3.2			• timing				
•							
			Mixing and spraying:	_	_	_	
			• filling				
			reduced volume applications (if applicable)				
			recommended nozzles				
			recommended pressure				
			spray quality				
			additional label information				
			compatibility				
			Met ✓ Not Met X				
	Identify applicator	Candidate to identify all	May include:				
Unit 113	components and controls	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 bag/sleeve				
			 fan speed adjustment control 				
			air outlet angle control				
			fan 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 which could be that intended	 flat flan – fine/medium/coarse spray 				
		for use (if applicable)	• air inclusion – medium/coarse spray, low drift				
			 cone – fine spray, good coverage 				
			Met ✓ Not Met X				
	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				
			accessible)				
			• transmission oil level is within acceptable limits (if				
			accessible)				
	1		 coolant level is adequate 				
			engine air filter is clean				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				_
NUMBER	CRITERIA Carry out pre-use and	GUIDANCE Candidate to carry out all	ACTIVITIES May include all/some of the following as applicable to	Α	В	С	D
Unit 113 4.3	operational checks to the sprayer	pre-use and operational checks to the sprayer/applicator	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	identification of lubrication points				
		lubricated correctly	visual inspection of lubrication points				
			visual inspection of levels				
		Check boom settings,	boom suspension operational				
		suspension and break-back devices	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	 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	 functions of control panel recognition of malfunctions before and during 				
		the applicator is functioning correctly (if applicable)	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	_	_		_
			proceduresclean water supply				
		Check applicator for liquid and air leaks, and correct	 use higher than normal operating pressure visual check of all nozzles for correct spray 				
		spray patterns	 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	stop posticido esplication				
		the event of the control panel	 stop pesticide application manual operation of controls if possible 				
		failing (if applicable)					
			Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA C	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 speed	 Calibration may include the following: 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 manufacturers literature (if available)	 use of manufacturers operators handbook 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 Note to the Assessor: air	 use a measuring jug to check output from at least one nozzle per boom section (minimum of three per applicator) 				
		assistance not required when checking nozzle output	 compare with target output vary pressure to make small adjustments change nozzles if required 				
		State four pieces of calibration data that should	 or any other acceptable method May include: registration number of vehicle 				
		be recorded	tyre size and pressuregear selectedengine speed				
			 vehicle forward speed application volume nozzles fitted 				
			liquid pressureflow rate				
Unit 113	Calculate the quantities of pesticide and water	Candidate to calculate guantities required for both a	Met ✓ Not Met X 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 				
Unit 113	Measure the required quantities and add to the	Candidate to measure and add quantities required for	Met ✓ Not Met X To include: • correct selection and use of PPE (as required by				
5.1	sprayer	the area specified in 4.5 Note: This may be a simulated pesticide	 the product label and/or COSHH Assessment) suitable site selected fill by usual on-site method, following approved 				
		product	 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 				
			Met ✓ Not Met X				

Demonstrate set and procedures Candidate to deache voo possible methods a achieve accurate application May include any of the following: Image: transmission of transmission of the set of the	CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	_			
Unit 13 procedures accurate application accurate application accurate application accurate application accurate application accurate application accurate application accurate application 5.2 Candidate to explain the appropriate paper. accurate application accurate application accurate application accurate application accurate application accurate application accurate application accurate application Candidate to explain the appropriate procedure to follow withing an application accurate application application accurate application accurate application accurate application accurate application Candidate to explain the appropriate procedure to follow in the event of the appropriate procedure to follow in the event of the appropriate procedure to follow in the event of the appropriate accurate as propriate PPE action to include: accurate application accurate application Candidate to explain the appropriate accurate appropriate PDE call and the assistance application assistance assistance May include: assistance accurate application accurate application Candidate to explain the appropriate accurate appropriate proceeding assistance application assistance assistance May include: assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance assistance asacurase assistance assistance as	NUMBER	-			A	Р	C	D
9 coordures accurate application coordinates coordinates<td>Unit 113</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td>	Unit 113							
Candidate to explain the appropriate procedure to follow when the applicator needs refilling part way through an application of the spication to include: appropriate procedure to follow when the applicator emploid is the spication to include: appropriate procedure to follow when the applicator emploid is the spicator emploid is refill applicator in the spicate to explain the application of the spicate point is propriate procedure to follow when a nozzle becomes blocked during an opplication and application of the applicator is a superprivate point is produced; which the applicator appropriate procedure to follow when a nozzle becomes blocked during an opplication and application of the arrange and or nozzle appropriate to explain the applicator of all assistance applied in the applicator of a resistance applied is a superport in the application of the arrange and or nozzle appropriate to explain the applicator of a resistance applied is a superport application of the arrange and or nozzle applied are appropriate to explain the application of the spray under the arrange and or nozzle application of the spray indo	5.0	procedures	accurate application	crop rows				
Candidate to explain the appropriate procedure to follow when a spectra condidate to explain the appropriate procedure to follow when a spectra condidate to explain the appropriate procedure to follow when a nozze bolow when a nozze the appropriate procedure to follow when a nozze bolow when a nozze the appropriate procedure to follow the ar assistance system Candidate to explain two reasons for adjusting air outlet angle endform nozzele and accurate specified according to the spray into the appropriate procedure to the appropriate procedure the appropriate procedure the and accurate specified atter appropriate to the appropriate procedure the appropriate procedure the the appropriate procedure the the appropriate procedure the the appropriate procedure the the appropriate procedure the a target and procedure to the target and procedure to the appropriate procedure the the appropriate procedure the the appropria	5.2			blob markers				
 use of GPS use of GPS use of GPS use of GPS appropriate procedure to follow when the applicator media taling part way through an application candidate to explain the appropriate procedure to follow when a nazzle becomes blocked during an optication Candidate to explain the appropriate procedure to follow when a nazzle becomes blocked during an optication candidate to explain the appropriate procedure to follow when a nazzle becomes blocked during an optication candidate to explain the appropriate procedure to follow when a nazzle becomes blocked during an optication candidate to explain the appropriate procedure to follow in the ovent of the failure of the exercisive during an optication assistance (if conditions allow) assistance (if conditions allow) assistance (if conditions allow) a larger ai volume is produced, which may; enduces assistance fif conditions allow) a larger ai volume is produced, which may; outlet angle and/or nozzle angle content to explain two reasons for explaining an appropriate to the candidate and appropriate to the candidate and appropriate to the candidate normal work situation and sufficient to the candidate and appropriate to the candidate normal work situation and and accurate application procedures 				marker poles				
Candidate to explain the applicator receipts refining part ways through an applicator receipts refining part ways through an applicator replace to explain the applicator follow when a nozzle becomes blocked during and the event of the appropriate procedure to follow when a nozzle becomes blocked during and appropriate procedure to follow when a nozzle mappropriate procedure to follow when a nozzle mappropriate procedure to follow when a nozzle mappropriate procedure to follow when a nozzle becomes blocked during and appropriate procedure to follow when a nozzle mappropriate procedure to the appropriate procedure to the spray without using downwards air assistance system stop appropriate procedure to the spray without using downwards air assistance system a larger air volume is produced, which may; a larger air volume is produced, which may; a larger air volume is produced, which may; a larger ary volume i				marker dyes				
avoid contact with contaminated cop avoid contact with contaminated cop				use of GPS				
reader containing part way through an application				Explanation to include:				
In mark the spoil at which the applicator empiled i			appropriate procedure to	 avoid contact with contaminated crop 				
Intrough an application refill applicator continues spraying by accurately matching at the appropriate procedure to follow when a nozzle to application on clude: care not to walk in contaminated crop continue to spray without using downwards air a larger air volume is produced, which may: a larger air volume is produced, which may: inclining forward will: a larger air volume is produced, which may: inclining forward will: open the crop cancey and counteract the effect on the spray created by a fail wind a larger air volume is proving and counteract the effect on the spray created by a fail wind ensure boom height according to target and on the approcation to target				mark the spot at which the applicator emptied				
appropriate point appropriate point appropriate procedure to follow when a nozzle becomes blocked during an application candidate to explain the appropriate procedure to follow in the event of the assistance system Candidate to explain the failure of the air assistance system stop spraying Candidate to explain the appropriate procedure to follow in the event of the assistance system May include: Candidate to explain two reasons for align and/or nozzle angle and/or no				refill applicator				
Candidate to explain the appropriate procedure to follow when a nozzle becomes blocked during an application content walk in contaminated cop corres of the appropriate procedure to the failure of the air assistance system Candidate to explain the speed of air assistance system Candidate to explain the speed of air assistance angle and/or nozzle angroy and counteract the effect on the spray created by a fair wind the failure of the candidate to apply pesticiton procedures and work situation and work situation and work situation and or nozzle angle according to target and conditions to the spray created by a fair work situation and on the spray created by the forward speed of the asprayer and on the spray created by the forward will: Candidate to apply pestication proceedures appropriate and according to target and conditions to statu wind the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed of the asprayer and counteract the effect on the spray created by the forward speed and finish applying accounter by a the beginning and and of each boat accounters and the apply best according to target and conditions and the spray and masses and the sprayer and the spread a				 continue spraying by accurately matching at the 				
Select and use appropriate PPE • select and use appropriate PPE • care not to walk in contaminated crop • clean or replace nozzle as appropriate PPE • continue to spray without using downwards air assistance • continue to spray without using downwards air assistance or increasing the speed of air assistance or increasing the speed of air assistance or increasing the angle and/or nozzle angle or the candidate normal will: • increase normal will: • increase down is level or aligned to the target • correct air outler and the effect on the spray created by a tail wind • correct air outler and the effect on the agret and uper outlers and according to target and uper outlers and the effect on the spray created by a tail wind • correct air outlet and nozzle and and or leach boat and and or decording to target and conditions • correct air outlet and nozzle angle according to target and tope or indice in speak according to target and uper according to target and outle specified area appropriate to the candidate normal will: • open the crop canopy and counteract the effect on the spray created by a tail wind • correct air outlet and nozzle and and or decording to target and tope or in azel and acorditions • correct air outlet and nod reach boa				appropriate point				
foliow when a nozzle care not to walk in contaminated orop <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>			-					
 care not to Walk in containated copy care not to Walk in containated copy clean or replace nozzle as appropriate continue to spray without using downwards air assistance stop spraying continue to spray without using downwards air assistance (if conditions allow) difference of air assistance May include: keeps the air bag/sleave 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 lead to excessive drift dining forward will: open the crop canopy and counteract the effect on the spray created by a tail wind dincharger and during the air bag/sleave in flated over aspect of the spray represer counteract the effect on the spray created by a tail wind dincharger and during the air bag appropriate to the canop and counteract the effect on the spray created by a tail wind dincharger and during and accurate application proceedures correct boom height according to target and type of nozzle and accurate application procedures correct and page and or inserver and the bagning and end the bagning and end spray or called area target and conditions correct and page according to target and conditions correct air subed and pressure for site conditions correct forward speed and pressure for site conditions accurate and the beginning and end finish applying and mineses adi of specified area target areated, minimising overlaps and misses adi of specified area target areated, minimising overlaps and misses 								
 clean or replace nozzle as appropriate stop spraying continue to spray without using downwards air assistance (if conditions allow) continue to spray without using downwards air assistance (if conditions allow) dual to spray without using downwards air assistance (if conditions allow) assistance (if conditions allow) dual to spray without using downwards air assistance (if conditions allow) assistance (if conditions allow) dual to spray without using downwards air assistance (if conditions allow) alarger air volume is produced, which may; improve penetration of the spray into the crop anopy and counteract the effect on the spray created by the forward speed of the sprayers counteract the effect on the spray created by a head wind dual to exceed by a tail wind dual counteract as apply pesticide to treat a specified area appropriate to the candidate normal work situation and sufficient odemonstrate stafe and acounters apply pesticide proceations and acounters apply candidate application proceeding to target and conditions correct air outlet and nozzle angle according to target and conditions correct air audit and nish applying accurately at the beginning and end of each bout dual specified area treated, minimising overlaps and direction accurate matching of bouts / use of driving aids dual of specified area treated, minimising overlaps and direction 				 care not to walk in contaminated crop 				
appropriate procedure to follow in the event of the failure of the air assistance system Candidate to state two effects of increasing the speed of air assistance May include: Image: a log state of the spray without using downwards air assistance (if conditions allow) Image: a log state of the speed of air assistance Candidate to state two effects of increasing the speed of air assistance May include: Image: a log state of the spray and the spray of the spray into the creasons for adjusting air outlet angle and/or nozzle angle Image: a log state of the spray or created by the forward speed of the spray or created by the forward speed of the spray or created by the forward speed of the spray or created by a log state of the spray created by a head wind Image: I				clean or replace nozzle as appropriate				
 appropriate procedure to follow in the event of the failure of the air assistance is system Candidate to state two effects of increasing the speed of air assistance Candidate to explain two reasons for adjusting air outlet angle and/or nozzle angle Candidate to apply pesticide angle Candidate to apply pesticide to the spray created by the forward speed of the sprayer appropriate to the candidate: open the crop canopy and 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 head wind inclining rearward will: open the crop canopy and 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 head wind inclining rearward will: open the crop canopy and 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 head wind inclining rearward will: open the crop canopy and 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 head wind inclining rearward will: open the crop canopy and counteract the effect on the spray created by a tail wind inclining rearward will: orrect toom height according to target and conditions correct toom height according to target and conditions ocrorect torward speed and pressure for site condit				 stop spraying 				
failure of the air assistance system assistance (if conditions allow) assistance (if conditions allow) a l a				 continue to spray without using downwards air 				
Candidate to state two effects of increasing the speed of air assistance May include: • 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 Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray into the crop • lead to excessive drift Improve penetration of the spray created by the forward speed of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray created by a tail wind Improve penetration of the spray			failure of the air assistance					
effects of increasing the 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 • • • • • • • • • • • • • • • • • • •				May include:				
Speed of air assistance length Integration Integratio			effects of increasing the					
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direction				and misses				
				Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDA1 C	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	 To include: prevention of personal injury and contamination through correct selection and use of PPE (as required by the product label and/or COSHH 				
0.0		human health and the environment	 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				
5.4		Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	● legible (if handwritten) Met ✓ Not Met X				
	Explain how to manage	Candidate to explain one	May include:				
Unit 113	surplus pesticide and dispose of waste material	method of dealing with surplus concentrate pesticide	return to temporary mobile store				
6.1	dispose of waste material		return to fixed store				
		Candidate to explain two methods of dealing with	containers:				
		waste containers and	 triple rinsed placed in secure storage until disposal 				
		packaging	 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	decontaminate the sprayer	factors that need to be	 select and use appropriate PPE 				
6.2	and, if applicable, the prime mover	considered when cleaning and decontaminating the	appropriate site				
012		sprayer and, if applicable, the	 thorough washing with water and suitable additive if required 				
		prime mover	 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	Candidate to describe three factors to consider prior to	May include: • ensure the applicator is clean and dry				
	sprayer	storing the applicator	 ensure the applicator is clean and dry inspect for wear and damage 				
6.3			 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 114 - Operating Mounted or Trailed Wick Type Applicators (PA2F)

Candidate	Α	Name:		Date	:	Start Time:	Dura	atior	1:		
Candidate	B	Name:		Date	:	Start Time:	Dura	atior):		
Candidate	C	Name:		Date	:	Start Time:	Dura	atior):		
Candidate	Đ	Name:		Date	:	Start Time:	Dura	atior):		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C. A	AND B	IDA1	TE D
Unit 114 1.1	req app	scribe the legal uirements relating to lying pesticides using k type applicators	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 equipr gal requirements elevant road traffic regulat or transporting on the pub Plant Protection Products e) Regulations 2012) st hold the appropriate ne equipment they are usi	ons lic				
						Met√ No	t Met X				
Unit 114 1.2	pes wicl follo	scribe how to apply ticides safely using k type applicators owing industry best ctice	Candidate to describe on operator safety regulation i terms of using wick type applicators	-	adopt industry be be aware of any	ticides Codes of Practice est practice safety implications impos sessment and comply wi					
			Candidate to describe two precautions the operator m take to protect self from pesticide contamination wh operating the prime mover	iay ien •	use of in-cab cor ensure ventilatio close all windows	n system is functional s PE stored in external locke form:	r				
			When preparing the prime mover and applicator, the candidate is to describe three checks which the operator may carry out to protect self from physical danger during operation	•	front weights wheel track width correct tyre press condition of tyres brake function	sures					
			Candidate to state four aspects of safe practice to considered when driving o uneven/sloping terrain	be 🖕	select four whee appropriate spee correct gear sele effect of changin use of weights to correct turning p	l drive (if fitted) ed ection g load on stability o stabilise prime mover					
			Candidate to state one consideration for safe drivin on a public highway			kes coupled together speed makes vehicle uns Met ✓ No					

Unit 114 2.1 Identify raise to the environment for the spolication size Main include: grout conditions Image: conditi
2.1 environment for the application site • value courses • · · · · · · · · · · · · · · · · · · ·
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Unit 114 Identify applicator Candidate to identify all components and controls relating to the applicator being used for the assessment May include: wick • pump Image: Candidate to identify all • main tank Image: Candidate to identify all • mai
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Unit 114 Identify applicator components and controls relating to the applicator being used for the assessment Candidate to identify all components and controls relating to the applicator being used for the assessment May include: Image: Components and controls relating to the applicator being used for the assessment May include: Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the applicator being used for the assessment Image: Components and controls relating to the ap
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Unit 114 components and controls components and controls main tank I I I 4.1 eing used for the assessment assessment main tank I I I I
4.1 relating to the applicator being used for the assessment • wick □ <t< th=""></t<>
4.1 being used for the assessment pump
assessment • pump
A tilling constrait and dourses
agitation control
pressure adjustment control
pressure gauge on/off control
Continued • filters □ □ □ □
clean water tank

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA C	TE D
-			nozzles/distribution system				
Cont			diaphragm check valves				
Unit 114			tank drain				
4.4			 other components/controls specific to the application 				
4.1			applicator				
	Carry out pre-use checks	Candidate to carry out all	Met ✓ Not Met X May include:				
Unit 114	to the prime mover	pre-use checks relevant to	 guards in place and in good condition 				
4.0		the prime mover being used	 visual inspection of the wheels and tyres 				
4.2		for the assessment	tyre pressures				
			fuel level adequate				
			engine oil level is within acceptable limits				
			 hydraulic oil level is within acceptable limits (if accessible) 				
			 transmission oil level is within acceptable limits (if 				
			accessible)				
			coolant level is adequate				
			engine air filter is clean				
			Met ✔ Not Met X				
	Carry out pre-use and	Candidate to carry out all	May include all/some of the following as applicable to				
Unit 114	operational checks to the applicator	pre-use and operational checks to the applicator	the applicator:				
4.3		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 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 filter	Candidate to:				
		Tiller	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 				
			 Init 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 componente		_	_	
			componentslids and seals				
			 pipe work and connections 				
			 control valves 				
			• filters				
			pressure gauge				
			diaphragm check valves				
			Met ✔ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDA1 C	TE D
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 wigh (wet/dm) 				
			time required to prime wick (wet/dry)adjust flow rate to wick				
		State two pieces of operational data that should	May include: • registration number of vehicle				
		be recorded	 gear selected priming time for wick 				
			liquid pressure (if applicable)				
			flow rate setting Met ✓ Not Met X				
	Calculate the quantities of	Candidate to calculate	To include:				
Unit 114	pesticide and water required for a specified	quantities required for both a specified area and full tank	 amount of water required for specified area amount of pesticide required for specified area 				
4.5	area		amount of pesticide required for full tank				
	Measure the required	Candidate to measure and	Met ✓ Not Met X				
Unit 114 5.1	quantities and add to the applicator	add quantities required for the area specified in 4.5	 correct selection and use of PPE (as required by the product label and/or COSHH Assessment) suitable site selected 				
		Note: This may be a simulated pesticide product	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:				
Unit 114	accurate application procedures	possible methods to achieve accurate application	blob markers				
5.2			marker polesapplicator wheelings				
			use of GPS				
		Candidate to explain the appropriate procedure to	Explanation to include:				
		follow when the applicator	 avoid contact with contaminated crop mark the spot at which the applicator emptied 				
		needs refilling part way through an application	 refill applicator 				
			• continue application by accurately matching at the appropriate point				
		Candidate to describe one problem relating to	May include:				
		application that could occur when working on sideways (laterally) sloping ground	 increased saturation of lowest side of wick decreased saturation of highest side of wick 				
		Candidate to explain the appropriate procedure to	Explanation to include:select and use appropriate PPE				
		follow when a nozzle or distribution system becomes	care not to walk in contaminated crop				
Continued		blocked during an application	 clean or replace nozzle/distribution system as appropriate 				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDAT C	ГЕ D
Cont		Candidate to apply pesticide to treat a specified area	To include: • ensure wick is level or aligned to the target				
Unit 114		appropriate to the candidate's normal work situation and	correct wick height according to target				
		sufficient to demonstrate safe	 operate controls to start and finish applying accurately to the target 				
5.2		and accurate application 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 				
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
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	 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 off target application 				
			 avoidance of our 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 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				
		Candidate to explain one	May include:				
Unit 114		method of dealing with surplus concentrate pesticide	return to temporary mobile store				
6.1			return to fixed store				
		Candidate to explain two method of dealing with waste	Containers: • 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	 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				
Unit 114	Explain how to clean and decontaminate the	Candidate to explain four factors that need to be	May include:		_	_	
	applicator and, if	considered when cleaning	 select and use appropriate PPE appropriate site 				
6.2	applicable, the prime mover	and decontaminating the applicator and, if applicable,	 thorough washing with water and suitable additive if required 				_
		the prime mover	 internal and external surfaces 				
			cleaning of the wick				
			thorough flushing of systems				
			 safe disposal of contaminated washings when cleaning should take place 				
			 when cleaning should take place safe procedures followed 				
			Met ✓ Not Met X				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA	ſE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Describe the storage	Candidate to describe three	May 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 				
			Iubricate 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)

Unit 115 rec ap 1.1 vel spi unit 115 pe vel 1.2 spi	Name:		 complies with when operating highway comply with when operating highway comply with (Sustainable) the operator certification May include: comply with adopt indus of non-poro of surface at the adopt indus of non-poro of surface at the aware of Risk/COSH requirement Cabbed: fit carbon fil use of in-cat 	lter	tions blic s ing ot Met X respect nination sed by	ition Ition	:	
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NUMBER Unit 115 1.1 De rec ap vel spi	CRITERIA escribe the legal equirements relating to oplying pesticides using ehicle mounted kerb orayers escribe how to apply esticides safely using ehicle mounted kerb orayers following industry	GUIDANCE Candidate to describe two operator's obligations in terms of legal requirements Candidate to describe one operator safety regulation in terms of using vehicle mounted kerb sprayers Candidate to describe two precautions the operator matake to protect self from pesticide contamination when	 all required complies with complex with when operating highway comply with (Sustainable) the operato certification May include: comply with adopt indus of non-poro of surface a be aware of Risk/COSH requirement Cabbed: fit carbon fill use of in-ca 	ACTIVITIES guards are in place and equipr ith legal requirements an all relevant road traffic regulat ating or transporting on the pub on The Plant Protection Products le Use) Regulations 2012 or must hold the appropriate of or the equipment they are usin Met ✓ No on Pesticides Codes of Practice stry best practice particular in re- bus surfaces and risk of contam- and ground water of any safety implications impos IH Assessment and comply witts	tions blic s ing ot Met X respect nination sed by			
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be	est practice	precautions the operator matake to protect self from pesticide contamination whe	of surface a be aware of Risk/COSH requirement Cabbed: y fit carbon fil use of in-ca	and ground water f any safety implications impos IH Assessment and comply wi ts Iter	sed by			
		precautions the operator matake to protect self from pesticide contamination whe	Cabbed: • fit carbon fil • use of in-ca	lter				
			 close all wir 	tilation system is functional ndows				
			 awareness 	ed PPE stored in external locke of the siting of pressurised s within confines of the cab	ər			
				y/platform: opriate PPE of the siting of pressurised				
			components cab/canopy/	s within 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 wheel track correct tyre condition of brake function	pressures f tyres				
		Candidate to state four aspects of safe practice to b considered when driving on uneven/sloping terrain	 appropriate correct gear effect of char correct turn 	speed				
		Candidate to state one consideration for safe driving on a public highway		t high speed makes vehicle uns g vehicle protocols	stable			

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City & Guilds Level 2 Award in Safe Application of Pesticides Using Self Propelled, Mounted, Trailed Horizontal Boom Sprayers (PA2)

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDA C	TE D
	Identify risks to the	Candidate to identify all	May include:				
Unit 115	environment	relevant risks to the environment for the	hard surface run-off				
2.1		application site	 drains water courses 				
			 environmental areas 				
			• wildlife				
			non-target plants				
			sensitive crops/areas				
			hedgerows				
			housing				
			 public access other risks particular to the site				
	Explain how to minimise	Candidate to explain how to	Met ✓ Not Met X Explanation to include the following points:				
Unit 115	risks to the environment	minimise the risks identified	 check and maintain application rate 				
		in 2.1	 avoid run-off 				
2.2			avoid spray drift				
			observe buffer zones				
			inform neighbours				
			appropriate warning signs				
			 use an appropriate pesticide (minimal environmental impact) 				
			 careful timing 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 comment on wind speed and	 use of anemometer at suitable heights or visual signs 				
		direction	wind direction				
		Candidate to state five	May include:				
		factors that affect spray drift	weather conditions				
			direction of spraying				
			nozzle type and size				
			• pressure				
			forward speed				
			 nozzle height rotary atomiser speed 				
			defective equipment				
	Read product information	The candidate is required to	Met ✓ Not Met X				
Unit 115	Read product information	read and interpret the	The following to be provided: • product name				
	Interpret product	information on a product label	 active substance(s) (ingredient(s)) 				
3.1	information	and provide relevant information as requested by					
3.2		the Assessor	Important information:	_			
5.2		Note to the Assessor: A	 field of use taraet 				
		product label is required. It is	 target maximum individual dose 				
		expected that the candidate 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				
			environmental protection				
		Note to the Candidate (Assessor also to note): It is	restrictions on use				
		acceptable for key information on the label to be	Target specific information:				
		highlighted for use during the	• target				
		assessment	dose rate				
Continued			water volume timing				
			• timing				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C. A	AND B	IDA1 C	re D
			mixing and spraying:				
Cont			filling				
Unit 115			 recommended nozzles recommended pressure 				
3.1			 spray quality 				
3.2			additional label information				
5.2			Met ✓ Not Met X				
Unit 115	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	 filling control and devices 				
		233035mont	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 				
			 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				
	O market and the state of the state	Atomiser sprayers)	Met ✓ Not Met X May include:				
Unit 115	Carry out pre-use checks to the prime mover	Candidate to carry out all pre-use checks relevant to	 visual inspection of the wheels and tyres 				
4.2		the prime mover being used for the assessment	tyre pressures				
4.2			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 4.3	operational checks to the sprayer/applicator	pre-use and operational checks to the sprayer/applicator	the 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	identification of lubrication points				
		lubricated correctly	visual inspection of lubrication points				
			visual inspection of levels				
		Check spray head	height adjustment				
		attachment and break-back devices	break-back efficiency				
		Remove, clean and refit a	Candidate to:				
		filter	remove and clean using appropriate method				
			 contain spillage check for defects 				
Continued			cneck for defects refit				

Unit 115 nozzle/restrictor/spray head • contain spillage 4.3 • contain spillage • check for defects 4.3 • contain spillage • check for defects • refit • replace if worn/dame • refit • control panel to ensure that the applicator is functioning correctly (if applicable) • functions of control or or attach pesticide container Part fill applicator or attach pesticide container • suitable site selected • control spanel to ensure that the applicator for leaks and correct spray patterns • suitable site selected • control spanel to ensure that the applicator for leaks and correct spray patterns • use higher than norr • visual check of all no for correct spray patterns • use higher than norr • visual check of all no for correct spray patterns • use higher than norr • visual check of all no for correct spray patterns • use higher than norr • visual check value • use higher than norr • visual check value • use higher than norr • visual check value • use higher than norr • visual check value • use higher than norr • visual check value • use higher than norr • replace defective nor • ilids and seals • pipe work and co	anel Inctions before and during Inctions before and during Internet applicable Internet Inter			
Unit 115nozzie/restrictor/spray headnozzie/restrictor/spray headnozzie/restrictor/spray head4.34.3Explain how to use the control panel to ensure that the applicator is functioning correctly (if applicable)functions of control p recognition of malitu upperationPart fill applicator or attach pesticide containersuitable site selecter fill by usual on-site r procedures or clean water supply orCheck applicator for leaks and correct spray patternsuse higher than nor visual check of all no for correct spray patternsUnit 115 4.4Calibrate the sprayer and record relevant dataCandidate is required to calibrate the applicator and record relevant dataUnit 115 4.4Calibrate the sprayer and record relevant dataCandidate is required to calibrate the applicator and record relevant dataCalibrate the sprayer and record relevant dataCalibrate forward spe conditions application forward speed	ged anel actions before and during t mode where applicable atiner al operating pressure zzles/atomisers/spray heads terns, absence of blockages, zzles/atomisers/spray heads			
Unit 115headcontrol name4.3Explain how to use the control panel to ensure that the applicator is functioning correctly (if applicable)functions of control j recognition of malfu operation switch to manual/tesPart fill applicator or attach pesticide containersuitable site selecter fill by usual on-site r procedures c clean water supply o or attach pesticide containerUnit 115Calibrate the sprayer and record relevant dataCalibration may include the candidate is required to calibrate the applicatorsUnit 115Calibrate the sprayer and record relevant dataCandidate is required to calibrate the applicator forward speedCalibration may include the calibrate is required to calibrate the applicator and record relevant dataCalibration may include the calibrate the applicator and record relevant data4.4Calibrate the sprayer and record relevant dataCandidate is required to calibrate the applicator and record forward speedCalibration may include the calibrate the applicator and record forward speed	ged			
4.3 - check for defects - refit - refit - control panel to ensure that the applicator is functioning correctly (if applicable) - functions of control panel recognition of malfu operation Part fill applicator or attach pesticide container - suitable site selecter - clean water supply - or - or - attach pesticide con - or - or - or - attach pesticide con - or - or - or - or - or - attach pesticide applic - or - or - or - or - or - or - or	ged			
Unit 115Calibrate the sprayer and record relevant dataState one suitable action in the applicator is required to calibrate the applicatorCalibrate the sprayer and record relevant dataCalibrate the sprayer and record forward speedCalibrate the sprayer and record forward 	ged			
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conditions Image: Co								
all of specified area treated awareness of changes in wind speed and direction			procouros					
awareness of changes in wind speed and direction				coping with obstacles				
direction				all of specified area treated				
							_	
Met ✓ Not Met X				direction				
				Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT C	ГЕ D
Unit 115	Carry out all activities protecting human health	Note to the Assessor: Assessor to be satisfied that	To include:				
	and the environment	the candidate has carried out	 prevention of public / bystander contamination prevention of personal injury and contamination 				
5.3		all activities protecting human health and the	through correct selection and use of PPE (as				
		environment	required by the product label and/or COSHH Assessment)				
			 safe filling procedure 				
			avoidance of spray drift				
			avoidance of off target application				
			avoidance of over dosing/under dosing target				
			Met ✓ Not Met X				
Unit 115	Complete a treatment record	Candidate is required to complete a treatment record	Completion of the treatment record must be: • accurate				
		Note to the Assessment The	 legible (if handwritten) 				
5.4		Note to the Assessor: The treatment record must be	Met ✓ Not Met X				
		approved by the Assessor (or supplied by the Assessor if necessary)	Met + Not Met A				
	Explain how to manage	Candidate to explain one	May include:				
Unit 115	surplus pesticide and dispose of waste material	method of dealing with surplus concentrate pesticide	return to temporary mobile store				
6.1			return to fixed store				
		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 surplus dilute pesticide	 back on to site as long as it is below the maximum dose rate 				
			use on another approved target				
			• treated by specialist treatment facility on site (e.g.				
			 a lined bio bed) collected by a licensed waste disposal contractor 				
	Eveloin how to close and	Condidate to symbolic form	Met ✓ Not Met X				
Unit 115	Explain how to clean and decontaminate the sprayer	Candidate to explain four factors that need to be	May include: • select and use appropriate PPE				
6.2	and, if applicable, the prime mover	considered when cleaning and decontaminating the	appropriate site				
0.2		sprayer and, if applicable, the prime mover	 thorough washing with water and suitable additive if required 				
			internal and external surfaces				
			 use of in-built wash systems if provided 				
			thorough flushing of systems				
			 safe disposal of contaminated washings when cleaning should take place 				
			 safe procedures followed 				
			Met ✓ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 115	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				
0.0			replace any worn or damaged parts				
			controls left in appropriate positions frost protection measures implemented				
			 frost protection measures implemented lubricate as required 				
			 store undercover and out of direct sunlight 				
			store in a secure area				
			Met ✓ Not Met X				
		1		1	L		

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 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:	

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City & Guilds Level 2 Award in Safe Application of Pesticides Using Self Propelled, Mounted, Trailed Horizontal Boom Sprayers (PA2)