## CITY & GUILDS LEVEL 2 AWARD IN THE SAFE APPLICATION OF PESTICIDES USING SELF PROPELLED, MOUNTED, TRAILED HORIZONTAL BOOM SPRAYERS (QCF) (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 (QCF) (PA2)
Unit(s)	1 1 1	Operating Mounted, Trailed and Self Propelled Hydraulic Nozzle or Rotary Atomiser Horizontal Boom Sprayers (PA2A) (D/505/7664)
	1 1 2	Operating Mounted, Trailed and Self Propelled Air / Fluid Nozzle Horizontal Boom Sprayers (PA2C) ((M505/7667)
	1 1 3	Operating Mounted, Trailed and Self Propelled Downward Air Assisted Horizontal Boom Sprayers (PA2E) (M/505/7670)
	1 1 4	Operating Mounted or Trailed Wick Type
	1 1 5	Applicators (PA2F) (F/506/8298) Operating Vehicle Mounted Kerb Sprayers Fitted with Hydraulic Nozzles/Rotary Atomisers (PA2AR) (D/505/7681)
Learning Time	1 1 1	LT 28 (3 Credits)
(LT)	1 1 2	LT 28 (3 Credits)
	1 1 3	LT 28 (3 Credits)
	1 1 4	LT 28 (3 Credits)
	1 1 5	LT 28 (3 Credits)
		(* see note on page 2)
Recommended Assessment Duration		1.5 – 3 hours per Candidate
Pre-Requisite Units	1 0 1	Principles of Safe Handling and Application of Pesticides (PA1)

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

#### What is the Qualifications and Credits Framework?

OFQUAL have introduced the Qualifications and Credit Framework (QCF) to increase flexibility for learners and employers. Qualifications may be built up from individual units according to rules of combination. The units are compiled by City and Guilds NPTC and agreed with the Chemicals Regulation Directorate of the Health and Safety Executive.

#### 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.

#### \* Learning Time (LT)

Learning Time (LT) is a better indicator of the time requirement needed for a candidate to achieve competence in this qualification. It has replaced Guided Learning Hours (GLH) which are defined as "tutor or teacher led hours". LT is defined as "a notional measure of the learning time a typical learner might be expected to take to complete and achieve all learning outcomes". It takes into account prior learning and encompasses: formal learning (including classes, tutorials, on line tuition), coaching and mentoring, practical work, relevant IT activity, information retrieval, expected private study and revision, work-based activity which leads to assessment, practice to achieve competence, formative assessment, programme planning and feedback.

#### Access to Assessment

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

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

The assessment consists of five optional units:

Unit 111 – PA2A	(Optional)	(Credit Value 3)	(Print pages <b>6 – 12</b> plus <b>39</b> )
Outcome Outcome Outcome Outcome Outcome Outcome	<ol> <li>Be able to assess th</li> <li>Be able to read and</li> <li>Be able to prepare a</li> <li>Be able to operate th</li> </ol>		Criteria 4.1 – 4.5) ´ riteria 5.1 – 5.4)
Unit 112 - PA2C	(Optional)	(Credit Value 3)	(Print pages 13 – 19 plus 39)
Outcome Outcome Outcome Outcome Outcome	<ol> <li>Be able to assess th</li> <li>Be able to read and</li> <li>Be able to prepare a</li> <li>Be able to operate th</li> </ol>		Criteria 4.1 – 4.5) ´ riteria 5.1 – 5.4)
Unit 113 – PA2E	(Optional)	(Credit Value 3)	(Print pages 20 – 26 plus 39)
Outcome Outcome Outcome Outcome Outcome	<ol> <li>Be able to assess th</li> <li>Be able to read and</li> <li>Be able to prepare a</li> <li>Be able to operate th</li> </ol>	, ,	Criteria 4.1 – 4.5) riteria 5.1 – 5.4)

Unit 114 - PA2F	(Optional)	(Credit Value)	(Print pages 27 - 32 plus 39)					
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Know the legislative and safety regulations relating to application equipment (Criteria 1.1 – 1.2)  Be able to assess the environmental factors relating to the mixing and application site (Criteria 2.1 – 2.2)  Be able to read and interpret product information (Criteria 3.1 – 3.2)  Be able to prepare and calibrate the applicator (Criteria 4.1 – 4.5)  Be able to operate the application equipment (Criteria 5.1 – 5.4)  Know how to carry out post-operational procedures (Criteria 6.1 – 6.3)							
Unit 115 - PA2AR	(Optional)	(Credit Value)	(Print pages <b>33 – 39</b> )					
Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess the en Be able to read and inter Be able to prepare and of Be able to operate the a		Criteria 4.1 – 4.5) riteria 5.1 – 5.4)					

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

#### There are no endorsements for this Award.

#### **Quality Assurance**

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

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

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

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

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

#### **Performance Evaluation**

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

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

#### Appeals and Equal opportunities

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

Should occasions arise when Centres are not satisfied with any aspect of the verification process, they should contact the Quality Assurance Manager at City & Guilds NPTC, Building 500, Abbey Park, Stareton, Warwickshire, CV8 2LY. Telephone 024 76 857300

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

### Validation of Equipment

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

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

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

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

#### Safe Practice

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

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

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

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

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

#### Information

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

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

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

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

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

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

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

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

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

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

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

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

The Qualification Guidance contains criteria relating to:

- Observation of practical performance
- Assessment of underpinning knowledge

Published by City & Guilds Building 500 Abbey Park Stareton Warwickshire CV8 2LY

T +44 (0)24 7685 7300 F +44 (0)24 7669 6128

www.nptc.org.uk

e-mail: information@cityandguilds.com

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

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

Candidate	A	Name:	Date:		Start Time:	Duration:						
Candidate	В	Name:		Da	te:	Start Time:	Duration:					
Candidate	C	Name:		Da	te:	Start Time:	Duration:					
Candidate	D	Name:		Da	te:	Start Time:	Dura	atior	1:	1:		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C A	AND B	IDA1 C	ΓE D	
Unit 111	requapp	scribe the legal uirements relating to lying pesticides using zontal boom sprayers	Candidate to <b>describe two</b> operator's obligations in terms of legal requirements		complies with le comply with all when operating highway comply with The (Sustainable Us	rds are in place and equipmegal requirements relevant road traffic regulation or transporting on the public e Plant Protection Products (e) Regulations 2012	ons					
					certification for the equipment they are using  Met✓ Not Met ✓		•					
Unit 111 1.2	pes hori follo	scribe how to apply ticides safely using izontal boom sprayers owing industry best ctice	Candidate to <b>describe one</b> operator safety regulation i terms of using horizontal boom sprayers		<ul><li>adopt industry b</li><li>be aware of any</li></ul>	sticide Codes of Practice best practice y safety implications imposed ssessment and comply with						
			Candidate to <b>describe two</b> precautions the operator make to protect self from pesticide contamination who perating the prime mover	nay nen	Sealed cab:  fit carbon filter  use of in-cab co  ensure ventilatio  close all window  contaminated P  awareness of th components wit  Open cab/canopy/pla  use of appropria	on system is functional ws PE stored in external locker are siting of pressurised hin confines of cab atform: ate PPE are siting of pressurised hin confines of						
			When preparing the prime mover and sprayer, the candidate is to describe three checks which the operator may carry out to protect self from physical danger during operation  Candidate to state four aspects of safe practice to considered when driving or uneven/sloping terrain		May include:  compatibility of front weights wheel track wide correct tyre pres condition of tyre brake function May include: assess condition select four whee appropriate spe correct gear sel effect of changin use of weights t	prime mover and sprayer th ssures es ns el drive ed ection ng load on stability o stabilise prime mover						
			Candidate to <b>state one</b> consideration for safe drivion a public highway	ng	-	akes coupled together n speed makes vehicle unsta						

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	TE D
Unit 111	Identify risks to the environment	Candidate to identify all relevant risks to the	May include:				
	CHVIIOIIIICH	environment for the	<ul><li>ground conditions</li><li>water courses</li></ul>				
2.1		application site	environmental margins/strips/areas				
			• drains				
			boreholes				
			wildlife				
			<ul><li>non-target plants</li><li>sensitive crops/areas</li></ul>				
			hedgerows				
			• housing				
			public access				
			other risks particular to the site				
			Met ✓ Not Met X				
	Explain how to minimise	Candidate to <b>explain</b> how to	Explanation may include the following points:				
Unit 111	risks to the environment	minimise the risks identified in <b>2.1</b>	check and maintain application rate				
2.2			avoid spray drift				
			<ul><li>avoid off target application</li><li>observe buffer zones</li></ul>				
			comply with LERAP requirements				
			inform neighbours				
			erect warning signs				
			use an appropriate pesticide (minimal				
			environmental impact)				
			appropriate timing of application				
		Candidate to <b>state</b> the reason for minimising spray drift or off target application	avoidance of contamination to people and the environment				
		Candidate to <b>check</b> and <b>comment</b> on wind speed and direction	use of an anemometer at suitable height or visual signs  wind direction				
		Candidate to <b>state five</b> factors that affect spray drift	May include:				
			<ul><li>weather conditions</li><li>direction of spraying</li></ul>				
			nozzle type and size				
			• pressure				
			forward speed				
			boom height				
			rotary atomiser speed				
			defective equipment				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 111	Read product information	The candidate is required to read and interpret the	May include the following:				
3.1	Interpret product information	information on a product label and provide <b>relevant</b>	<ul><li>product name</li><li>active substance(s) (ingredient(s))</li></ul>				
		information as requested by the Assessor	Important information:				
Unit 111			field of use				
3.2		Note to the Assessor: A product label is required. It is	crop/target				
0.2		expected that the candidate	maximum individual dose     maximum total dose				
		will provide the product label.  The label provided must be	maximum total dose     maximum number of treatments				
		for a currently approved	The All Telling of the California				
		product and appropriate to the candidates normal work	specific product precautions/warnings				
		situation	operator protection				
		Note to the Candidate	environmental protection     restrictions on use				
		(Assessor also to note): It is acceptable for key	1.00.110.110.110.110.110.110.110.110.11				
		information on the label to be	Crop specific information:  crop/target				
		highlighted for use during the	dose rate				
		assessment	water volume				
Continued			• timing				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/ A	AND B	IDA.	TE D
Cont			Mixing and spraying:  • filling				
Unit 111			reduced volume applications (if applicable)				
			recommended nozzles				
3.1			recommended pressure     spray quality				
Unit 111							
3.2			additional label information     compatibility				
			Met ✓ Not Met X				
	Identify applicator	Candidate to identify all	May include:				
Unit 111	components and controls	components and controls relating to the applicator	main spray tank				
4.1		being used for the assessment	pump     pulsation damper				
		doodomone	filling control and devices				
			agitation control     pressure adjustment control				
			pressure adjustment control     pressure gauge				
			on/off control				
			<ul> <li>boom isolators</li> <li>boom section pressure compensation controls</li> </ul>				
			filters				
			tank wash system				
			clean water tank(s)     nozzles/atomisers				
			diaphragm check valves				
			• tank drain				
			other components/controls specific to the applicator				
		Identify and explain the use	May include:				
		of <b>two</b> types of nozzle, one of which could be that intended	flat fan – fine/medium/coarse spray				
		for use (not applicable to	air inclusion – medium/coarse spray, low-drift				
		Rotary Atomiser sprayers)	cone – fine spray, good coverage				
	Carry out pre-use checks	Candidate to carry out all	Met ✓ Not Met X  May include:				
	to the prime mover	pre-use checks relevant to the prime mover being used	guards in place and in good condition				
4.2		for the assessment	visual inspection of the wheels and tyres     tyre pressures				
			fuel level adequate				
			engine oil level is within acceptable limits				
			<ul> <li>hydraulic oil level is within acceptable limits (if accessible)</li> </ul>				
			transmission oil level is within acceptable limits (if				
			accessible)  coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X				
Unit 111	Carry out pre-use and operational checks to the sprayer	Candidate to carry out all pre-use and operational checks to the sprayer/applicator	May include all/some of the following as applicable to the sprayer/applicator:				
		Check security of attachment of applicator mechanisms	safe unfolding of booms to avoid personal contamination and contact with Over Head Power Lines (OHPL) and any other overhead hazards     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     setminer drives and electrical connectors.				
Continued			atomiser drives and electrical connectors				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/ A	AND B	IDA <sup>-</sup>	TE D
Cont		Check that the applicator is lubricated correctly	identification of lubrication points				
		lublicated correctly	visual inspection of lubrication points				
Unit 111			visual inspection of levels				
4.3		Check boom settings,	boom suspension operational				
		suspension and break-back devices	break-back efficiency     beight adjustment				
			height adjustment				
		Remove, clean and refit a filter	Candidate to:  • remove and clean using appropriate method				
			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				
		Evaleia how to you the					
		<b>Explain</b> how to use the control panel to ensure that	May include:  • functions of control panel				
		the applicator is functioning correctly (if applicable)	recognition of malfunctions before and during				
		defrectly (ii applicable)	operation				
			check accuracy of base settings     switch to manual/test mode where possible				
		Dant fill annillantan	· ·				
		Part fill applicator	To include:  • suitable site selected				
			fill by usual on-site method, following approved				
			procedures				
			clean water supply				
		Check applicator for leaks and correct spray patterns	May include:				
		and control of the particular	<ul> <li>suitable site selected</li> <li>use higher than normal operating pressure</li> </ul>				
			visual check of all nozzles/atomisers for correct				
			spray patterns, absence of blockages, streaking, pulsing				
			correct alignment				
			replace defective nozzles/atomisers/discs				
			<ul><li>lids and seals</li><li>pipe work and connections</li></ul>				
			control valves				
			filters				
			pressure gauge				
			diaphragm check valves				
		State one suitable action in the event of the control panel	May include:				
		failing (if applicable)	<ul> <li>stop pesticide application</li> <li>manual operation of controls if possible</li> </ul>				
			Met ✓ Not Met X				
	Calibrate the sprayer and	Candidate is required to	Calibration may include the following:				
Unit 111	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				
			accurate measurement of distance				
			accurate measurement of time taken to cover distance				
			<ul> <li>correct use of formula to establish forward speed</li> </ul>				
			·				
Continued		Calculate required output/volume rate	correct use of formula				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>-</sup>	TE D
Cont		Select appropriate nozzle/atomiser using	use of manufacturers operators handbook				
Unit 111		manufacturers literature (if available)	<ul> <li>use of nozzle/atomiser manufacturers literature</li> <li>confirm requirements of product label</li> </ul>				
4.4		Set operating pressure/disc speed	<ul> <li>pressure as determined by nozzle chart</li> <li>disc speed as determined by manufacturers</li> </ul>				
			Iiterature  • 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				
			<ul> <li>change nozzles/atomisers if required</li> <li>or any other acceptable method</li> </ul>				
		State four pieces of calibration data that should	May include:  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 <b>calculate</b> quantities required for both a	To include:				
	required	specified area and full tank	<ul> <li>amount of water required for specified area</li> <li>amount of pesticide required for specified area</li> </ul>				
4.5			amount of pesticide required for full tank				
			Met ✓ Not Met X			П	Ы
Unit 111	Measure the required quantities and add to the sprayer	Candidate to <b>measure</b> and <b>add</b> quantities required for the area specified in <b>4.5</b>	To include:  correct selection and use of PPE (as required by				
5.1	оргауст	Note: This may be a simulated pesticide	the product label and/or COSHH assessment)  observance of pesticide manufacturers instructions for mixing sequence and agitation (or				
		product	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				
			avoidance of spillage     return to secure storage				
			Met ✓ Not Met X				
	Demonstrate safe and	Candidate to describe two	May include any of the following:				H
Unit 111	accurate application	possible methods to achieve	• tramlines				
5.2	procedures	accurate application	• crop rows				
			blob markers     marker poles				
			<ul><li>marker poles</li><li>marker dyes</li></ul>				
			use of GPS				
		Candidate to <b>explain</b> 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				
		Candidate to <b>explain</b> the	appropriate point  Explanation to include:				
		appropriate procedure to	select and use appropriate PPE				
		follow when a nozzle/restrictor becomes	care not to walk in contaminated crop				
Continued		blocked during an application	clean or replace nozzle/restrictor as appropriate				

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

Cont   Unit 111	ut [			<u>ο</u>	
to treat a specified area appropriate to the candidates normal work situation and sufficient to demonstrate safe and accurate application procedures  5.2  Unit 111  5.2  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Note to the Assessor:  Assessor to be satisfied that the candidate had the environment  Note to the Assessor:  Assessor to be satisfied that the candidate had the environment  Note to the Assessor:  Assessor to be satisfied that the candidate has carried out all activities protecting human health and the environment  Complete a treatment record  Complete a treatment record  Complete a treatment record  Complete a treatment record  To include:  Prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment)  Prevention of public / bystander contamination safe filling procedure  avoidance of off-target application  avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Completion of the treatment record must be:  accurate  correct boom height according to target and typ of preval of possible and scurrate correct forward speed and friest and scurrate application accurate application application application avoidance of off-target application  accurate or the degration of the treatment record must be:  accurate value the beginning and end of each bo correct forward speed and pressure accurate accu	e				
Unit 111  5.2  appropriate to the candidates normal work situation and sufficient to demonstrate safe and accurate application procedures  by correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  correct boom height according to target and typ of nozzle  operate controls to start and finish applying accurately at the beginning and end of each bo correct forward speed and pressure  accurate matching of bouts / use of driving aids  coping with obstacles (if applicable)  all of specified area treated, minimising overlap and misses  awareness of changes in wind speed and direction  Met ✓ Not Met  To include:  prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment)  prevention of public / bystander contamination  safe filling procedure  avoidance of spray drift  avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Complete a treatment record  Completion of the treatment record must be:  accurate  correct boom height according to the treatment paccurate operate controls to start and finish applying accurate operate controls to selection and use of previous prevention of personal injury and contamination of	e				
Unit 111  5.2  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate papel cation procedures  Inormal work situation and sufficient to demonstrate safe and accurate papel cation procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedures  Inormal work situation and sufficient to demonstrate safe and accurate application procedure and accurate application and which production and use of procedure avoidance of spray drift  Inormal work structure application and use of PPE (as required by the product information and/or COSHH/Risk Assessment)  Inormal work structure and the bouts / two beginning and end of each bo correct forward speed and pressure accurate accurate poperate controls to start and finish applying accurate accu	ut [				
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procedures  procedures  procedures  procedures  accurately at the beginning and end of each bo correct forward speed and pressure accurate matching of bouts / use of driving aids coping with obstacles (if applicable) all of specified area treated, minimising overlap and misses awareness of changes in wind speed and direction  Met ✓ Not Met  To include: prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment) prevention of public / bystander contamination ade filling procedure avoidance of spray drift avoidance of off-target application avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Complete a treatment record  Complete a treatment record  Completion of the treatment record must be: accurate Complete in provention of public / bystander contamination avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Completion of the treatment record must be: accurate accurate accurate accurate by the product information and/or COSHH/Risk Assessment) avoidance of off-target application avoidance of over dosing/under dosing crop/tar  Completion of the treatment record must be: accurate accurate accurate accurate by the product information and/or COSHH/Risk Assessment) avoidance of off-target application avoidance of over dosing/under dosing crop/tar  Completion of the treatment record must be: accurate	S				
• correct forward speed and pressure • accurate matching of bouts / use of driving aids • coping with obstacles (if applicable) • all of specified area treated, minimising overlap and misses • awareness of changes in wind speed and direction  Met ✓ Not Met  To include: • prevention of personal injury and contamination the candidate has carried out all activities protecting human health and the environment  To include: • prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment) • prevention of public / bystander contamination • safe filling procedure • avoidance of spray drift • avoidance of off-target application • avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Unit 111  Complete a treatment record  Complete a treatment record • accurate • legible (if handwritten)	S				
Unit 111  Carry out all activities protecting human health and the environment  Diagnostic forms and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Complete a treatment record	x				
Unit 111  Carry out all activities protecting human health and the environment  Diagram of the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Carry out all activities protecting human health and the environment  Note to the Assessor:  Assessor to be satisfied that the candidate has carried out all activities protecting human health and the environment  Prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment)  Prevention of public / bystander contamination safe filling procedure  avoidance of spray drift  avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Candidate is required to complete a treatment record  Completion of the treatment record must be:  all of specified area treated, minimising overlap and misses  awareness of changes in wind speed and direction  Met ✓ Not Met  Complete a treatment record must be:  accurate  ladie of prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment)  prevention of public / bystander contamination  avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met	x _				
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Unit 111  5.3  Assessor to be satisfied that the candidate has carried out all activities protecting human health and the environment  Assessor to be satisfied that the candidate has carried out all activities protecting human health and the environment  Prevention of personal injury and contamination through correct selection and use of PPE (as required by the product information and/or COSHH/Risk Assessment)  Prevention of public / bystander contamination  Safe filling procedure  avoidance of spray drift  avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Complete a treatment record  Complete a treatment record  Complete a treatment record  Complete (if handwritten)		· 1			
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• safe filling procedure • avoidance of spray drift • avoidance of off-target application • avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Complete a treatment record  Legible (if handwritten)					
• avoidance of spray drift • avoidance of off-target application • avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Complete a treatment record  Legible (if handwritten)					
• avoidance of off-target application • avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Complete a treatment record  Accurate  Legible (if handwritten)					
• avoidance of over dosing/under dosing crop/tar  Met ✓ Not Met  Complete a treatment record  accurate  Indible (if handwritten)					
Unit 111  Complete a treatment record  accurate  ■ legible (if handwritten)					
Unit 111 Complete a treatment record Complete a treatment record Complete a treatment record complete a treatment record accurate	´  _	,  -	<u>-</u>	_	
Unit 111 record complete a treatment record accurate	<b>х</b> _	<u> </u>		Ш	Ш
• legible (if handwritten)		_			_
• legible (if handwritten)					
3.4 Note to the Assessor. The		اا			
treatment record must be Met ✓ Not Met	x _				
approved by the Assessor (or supplied by the Assessor if					
necessary)					
Explain how to manage Candidate to <b>explain one</b> May include:		$\top$			
Unit 111 surplus pesticide and method of dealing with return to temporary mobile store		ן [			
dispose of waste material surplus concentrate pesticide return to fixed store		ן [			
Candidate to <b>explain two</b> methods of dealing with  Containers:  • triple rinsed		,	$\neg$		
waste containers or packaging  packaging  packaging  packaging  packaging  packaging  packaging  packaging		_			
packaging  • 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 <b>explain two</b> May include:					
methods of dealing with  • back on to site as long as it is below the maxim	um				
surplus dilute pesticide dose rate		ו   נ			
use on another approved crop/target		ו   נ			
treated by specialist treatment facility on site (e	g.				
a lined bio bed)		_			
collected by licensed waste disposal contractor		]			
Met ✓ Not Met					1

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	С	AND	IDAT	ΓF
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	A	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	<b>F</b>	sprayer and, if applicable, the prime mover	<ul> <li>thorough washing with water and suitable cleaning agent (if recommended/required)</li> </ul>				
			internal and external surfaces				
			<ul> <li>use of in-built wash systems if provided</li> </ul>				
			care to ensure contamination 'hot-spots' are clean				
			thorough flushing of systems				
			safe disposal of contaminated washings				
			when cleaning should take place				
			safe procedures followed				
			Met ✓ Not Met X				
11 % 444	Describe the storage	Candidate to describe three	May include:				
Unit 111	requirements for the sprayer	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				
0.0			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 A Name:		Name:	Date:		Start Time:	Duration:							
Candidate	В	Name:		Date:		Start Time:	Dura	atior	1:	:			
Candidate	С	Name:		Dat	te:		Start Time:	Duration:					
Candidate	D	Name:		Date:			Start Time:	Dura	atior	):			
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE				SSESSMENT ACTIVITIES		C.	CANDIDAT B C			
Unit 112 1.1	requ app hori	cribe the legal uirements relating to lying pesticides using zontal boom sprayers thin fluid nozzles	Candidate to <b>describe two</b> operator's obligations in terms of legal requirements		complies comply when op highway comply (Sustain the oper	s with legwith all repertating of the control of th	ds are in place and equiprigal requirements elevant road traffic regulation transporting on the public Plant Protection Products e) Regulations 2012 st hold the appropriate	ions ic					
					сепіпса	certification for the equipment they are using  Met✓ Not Met							
Unit 112 1.2	pes hori follo	scribe how to apply ticides safely using zontal boom sprayers wing industry best ctice	Candidate to <b>describe one</b> operator safety regulation iterms of using horizontal boom sprayers	perator safety regulation in erms of using horizontal		dustry b	ticides Codes of Practice est practice safety implications impose sessment and comply with						
			Candidate to <b>describe two</b> precautions the operator m take to protect self from pesticide contamination who perating the prime mover	nay nen	<ul> <li>ensure v</li> <li>close all</li> <li>contamin</li> <li>awarene compon</li> </ul> Open cab/can <ul> <li>use of a</li> <li>awarene compon</li> </ul>	n-cab conventilation I window nated Pfess of the ents with nopy/pla appropria	on system is functional s PE stored in external locke e siting of pressurised nin confines of the cab tform: te PPE e siting of pressurised nin confines of the	: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  Candidate to state four aspects of safe practice to considered when driving or uneven/sloping terrain  Candidate to state one consideration for safe driving or consideration for consideration for consideration for consideration for consider	n	May include:      compatil     front we     wheel trace condition     brake fu  May include:     assess of select for appropriation correct of the select of the select for use of we correct to keep cereal May include:	bility of pights ack width tyre present of tyres and to the condition our whee a condition our whee a condition our whee a condition out with the condition of gentless to the condition of ge	orime mover and sprayer  h sures s  el drive (if fitted)						
			on a public highway				speed makes vehicle uns Met ✓ No						

Unit 112 2.1  Explain how to minimise makes to the environment to ribe application site  Unit 112 2.2  Explain how to minimise makes to the environment to ribe application site  Explain how to minimise makes to the environment to ribe application site  Unit 112 2.2  Explain how to minimise makes to the environment makes
environment for the application site    environment in the application site
### Application site    *** water courses**
Unit 112 3.1  Unit 112 3.2  Read product information Candidate to state five factors that affect spray drift uniformation information information information and appeal and direction  Unit 112 3.1  Unit 112 3.2  Read product information information information information are requested by the Assessor A product table is required. It is expected that the candidate will provide the product table is required. It is expected that the candidate information are requested by the Assessor. A product table is required. It is expected that the candidate will provide the product table is required. It is expected that the candidate information in the candidate information in the size of the size of the environment in margina/strips/areas
Unit 112 2.2  Explain how to minimise miss is identified in 2.1  Candidate to explain how to minimise the risks identified in 2.1  Candidate to state the reason for minimising spray offit or of target application.  Candidate to state the reason for minimising spray offit or of target application.  Candidate to state the reason for minimising spray offit or of target application.  Candidate to state the factors that affect spray drift or different on which speed and direction.  Candidate to state five factors that affect spray drift.  3.1  Unit 112 3.2  Read product information information information information as requested by the Assessor. A product label is required. It is expected that the candidate will provide the product label is required. It is expected that the candidate information:  The candidate to the Assessor. A product label is required. It is expected that the candidate will provide the product label is required. It is expected that the candidate information:  The label provided must be invalidated in the provided must be invalidated in the candidate in minimum unable of treatments.
Unit 112 2.2  Explain how to minimise risks to the envirorment or sks
unit 112 2.2  Explain how to minimise risks to the environment or minimise the risks identified in 2.1  Explain how to minimise risks to the environment or minimise the risks identified in 2.1  Explain how to minimise risks to the environment or minimise the risks identified in 2.1  Explain how to minimise risks identified in 2.1  Explain how to minimise risks identified in 2.1  Explain how to minimise risks identified in 2.1  Explain to include the following points:  Candidate to state the reason for minimising spray drift or off farget application  Candidate to state the reason for minimising spray drift or off farget application  Candidate to state five factors that affect spray drift for off farget application  Candidate to state five factors that affect spray drift or off farget application  Candidate to state five factors that affect spray drift for off farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget application  Candidate to state five factors that affect spray drift of farget product information  Candidate to state five factors that affect spray drift or of farget application  Candidate to state five factors that affect spray drift or of farget application  Candidate to state five application  Candidate to state five factors and direction factors are application factors and direction  May include:  Interpret product information  Interpret product information  Interpret product information information as requested by the Ass
Septain how to minimise risks to the environment of minimise the risks identified in 2.1   Septain how to minimise risks to the environment of minimise the risks identified in 2.1   Septain to the site   Septain how to minimise the risks identified in 2.1   Septain how to minimise the risks identified in 2.1   Septain for the check and maintain application rate   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed and direction   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check and comment on wind speed   Septain for the check
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Unit 112 2.2  Explain how to minimise risks to the environment insks to the environment of instantian to include the following points:  - check and maintain application rate - check and maintain application of instantian pointain information rate observed of the environment of instantian rate of explantation of instantian ra
Explain how to minimise the risks identified in 2.1   Explanation to include the following points:
Unit 112 2.2  Explain how to minimise in sisks to the environment in minimise the risks identified in 2.1  Candidate to explain how to minimise the risks identified in 2.1  Explanation to include the following points:  check and maintain application rate  avoid spray drift  observe buffer zones  comply with LERAP requirements  inform neighbours  erect warning signs  use an appropriate pesticide (minimal environmental impact)  Candidate to state the reason for minimising spray drift or of trarget application  Candidate to check and comment on wind speed and direction  Candidate to check and comment on wind speed and direction  Candidate to check and comment on wind speed and direction  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  The factors that affect spray drift  The candidate is required to read and interpret he information interpret product information  Information as required to read and information as pr
Unit 112 2.2  Explain how to minimise the risks identified in 2.1  Explain how to minimis application rate  avoid spay drift  cobserve buffer zones  comply with LERAP requirements  avoidance of contamination to people and the environment at suitable height or visual signs  wind direction  avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination to people and the environment or avoidance of contamination or avoidance of contamination to people and the environment or
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Candidate to state the reason for minimising spray drift or off target application Candidate to check and comment on wind speed and direction Candidate to state five factors that affect spray drift Candidate to state five factors that affect spray drift Candidate to state five factors that affect spray drift Candidate to state five factors that affect spray drift  The candidate to state five factors that affect spray drift  The candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  The candidate to state five factors that affect spray drift  The candidate to state five five factors that affect spray drift  The candidate to state five factors that affect spray drift  The candidate is required to read and interpret the information as requiested by the Assessor  Note to the Assessor: A product label and provide reporduct label and provide reporduct label and provider product label and provider product label and provider product label and provider product label and provider levant information as requiested by the Assessor: A product label is required to read and interpret the information as requiested by the Assessor: A product label is required to read and interpret the information in a product label and provider levant information:  The following to be provided:  The following to be provided:  The information:  The following to be provided:  The information:  The following to be provided:  The following to be provided:  The information:  The following to be provided:  The following to be provided:  The information:  The following to be provided:  The following to be provided:  The following to be provided:  The information:  The following to be provided:  The information information:  The following to be provided:
Candidate to state the reason for minimising spray drift or off target application   Candidate to check and comment on wind speed and direction   Candidate to state five factors that affect spray drift
Candidate to state the reason for minimising spray drift of target application  Candidate to check and comment on wind speed and direction  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors state five factors that affect spray drift  Candidate to state five factors state five factors that affect spray drift  Candidate to state five factors factors state five factors state five factors f
Unit 112 3.1  Read product information Interpret product information Interpret product information as requested by the Assessor: A product label and provide the product label is required the sepacted that the candidate will provided must be    vuse an appropriate pesticide (minimal environmental impact)   careful timing of application   careful ti
Candidate to state the reason for minimising spray drift or off target application  Candidate to check and comment on wind speed and direction  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Read product information  Unit 112  3.1  Unit 112  3.2  Note to the Assessor: A product label is required to the sexpected that the candidate will provide the product label is required. It is expected that the candidate will provide the product label in the provided must be  Candidate to state five environment and direction  Avoidance of contamination to people and the environment  Savoidance of contamination  Savoidance of savoidance of contamination  Savoidance of savoidance of savoidance
Candidate to state the reason for minimising spray drift or off target application  Candidate to check and comment on wind speed and direction  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five size of anemometer at suitable height or visual signs  Way include:  Way
Candidate to state the reason for minimising spray drift or off target application Candidate to check and comment on wind speed and direction Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors drift  Candidate to state five factors drift  Candidate to state five factors drift  May include:  • weather conditions • direction of spraying • restrictor size • air pressure • fluid pressure • forward speed • boom height • defective equipment  Met ✓ Not Met X  Important information: • active substance(s) (ingredient(s))  Important information: • field of use • maximum individual dose • maximum number of treatments
reason for minimising spray drift or off target application  Candidate to check and comment on wind speed and direction  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate to state five factors that affect spray drift  Candidate is required to read and interpret the information and product label and provide relevant information as requested by the Assessor: A product label and provide relevant information:  Note to the Assessor: A product label and provide the product label will provide the product label and provide the product label and provide the product label of the factors that he candidate will provide the product label and provide the product label of the factors that affect spray drift   **Unit 112**  3.2**  **Read product information**  The candidate is required to read and interpret the information as requested by the Assessor: A product label is required. It is expected that the candidate will provide the product label and provide relevant information:  **Interpret product**  Interpret product*  Information**  The following to be provided:  **active substance(s) (ingredient(s))  Important information:  **ifield of use**  **maximum individual dose**  **maximum number of treatments*  **maximum number of treatments*
Comment on wind speed and direction   Signs
Candidate to state five factors that affect spray drift    Candidate to state five factors that affect spray drift
Prestrictor size
unit 112 3.1 Unit 112 3.2 Read product information Interpret product information Unit 112 3.2 Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label The label provided must be  air pressure  fluid pressure  forward speed  boom height  defective equipment  The following to be provided:  product name  active substance(s) (ingredient(s))  Important information:  field of use  crop/target  maximum individual dose  maximum number of treatments
Unit 112 3.1 Unit 112 3.2 Read product information Interpret product information information as requested by the Assessor  Note to the Assessor: A product label expected that the candidate will provide the product label is required. It is expected that the candidate will provided the product label and provided the product label expected that the candidate will provided the product label is required. It is expected that the candidate will provided must be    fluid pressure     forward speed     boom height     defective equipment     product name     active substance(s) (ingredient(s))     Important information:     field of use     maximum individual dose     maximum number of treatments     maximum number of treatm
## Comparison of the product information   The candidate is required to read and interpret the information on a product label and provide relevant information as requested by the Assessor    ### Unit 112  3.1  Unit 112  3.2    Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label The label provided must be
Unit 112 3.1 Read product information Interpret product information on a product label and provide relevant information information as requiested by the Assessor: A product label accepted that the candidate will provide the product label The label provided must be  ■ Doom height  ■ Defective equipment  ■ Defective equi
Unit 112 3.1  Unit 112  3.2  Read product information Interpret product information  Unit 112  Note to the Assessor: A product label is expected that the candidate will provide the product label of the product label of the product label will provide the product label of the label provided must be under the defective equipment  Met ✓ Not Met X  Diffusion  The following to be provided:  product name  active substance(s) (ingredient(s))  Important information:  field of use  crop/target  maximum individual dose  maximum number of treatments  The label provided must be
Unit 112  3.1  Unit 112  3.2  Read product information Interpret product information Information as requested by the Assessor  Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label The label provided must be  Met ✓ Not Met X  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Unit 112  3.1  Unit 112  Interpret product information  Unit 112  3.2  Read product information  The candidate is required to read and interpret the information on a product label and provide relevant information as requested by the Assessor  Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label  The following to be provided:  product name  active substance(s) (ingredient(s))  Important information:  field of use  crop/target  maximum individual dose  maximum individual dose  maximum total dose  maximum number of treatments
Unit 112 3.1 Interpret product information  Interpret product information  Interpret product information  Interpret product information  Interpret product information on a product label and provide relevant information as requested by the Assessor  Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label  The label provided must be  Interpret product information on a product label and provide relevant information:  Important information:  Importan
Interpret product information  Interpret product information  Information  Interpret product information on a product label and provide relevant information as requested by the Assessor  Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label  The label provided must be  Information on a product label and provide relevant information:  Important inform
3.1 information  and provide relevant information as requested by the Assessor  Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label  The label provided must be  active substance(s) (ingredient(s))  Important information:  field of use  crop/target  maximum individual dose  maximum total dose  maximum number of treatments
the Assessor  Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label  The label provided must be  The label provided must be  Important information:  field of use  crop/target  maximum individual dose  maximum total dose  maximum number of treatments
Note to the Assessor: A product label is required. It is expected that the candidate will provide the product label  The label provided must be  The label provided must be  In the label provided must be
product label is required. It is expected that the candidate will provide the product label  maximum individual dose maximum total dose maximum number of treatments  maximum number of treatments
expected that the candidate will provide the product label  The label provided must be  maximum individual dose  maximum total dose  maximum total dose  maximum number of treatments
will provide the product label  The label provided must be
The label provided must be    maximum number of treatments
Total currently approved   ● Specific product precautions/warnings
product and appropriate to
the candidates normal work
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 highlighted for use during the dose rate
assessment   ● water volume   □   □   □
Continued • timing □ □ □ □

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	TE D
Cont			Mixing and spraying:				
			<ul> <li>filling</li> <li>reduced volume applications (if applicable)</li> </ul>				
Unit 112			recommended nozzles/restrictors				
3.1			recommended pressure				
Unit 112			<ul><li>spray quality</li><li>additional label information</li></ul>				
2.0			compatibility				
3.2			Met ✓ Not Met X				
Unit 112	Identify applicator	Candidate to identify all	May include:	1_			
Unit 112	components and controls	components and controls relating to the applicator	main spray tank     pump				
4.1		being used for the assessment	<ul><li>pump</li><li>compressor</li></ul>				
		assessment	air inlet				
			pressure relief device				
			pulsation damper				
			filling control and devices     agitation control				
			agitation control     fluid pressure adjustment control				
			air pressure adjustment control				
			air and fluid pressure gauges				
			on/off control				
			boom isolators				
			boom section pressure compensation controls     filters				
			tank wash system				
			clean water tank				
			nozzle flow restrictors				
			nozzle flood jets				
			diaphragm check valves     tank drain				
			other components/controls specific to the				
		<b>Identify</b> and <b>explain</b> the use	applicator				
		of <b>two</b> sizes of nozzle	May include:  • green (35) - 50-120 l/ha. Low volume application				
		restrictor, one of which could be that intended for use	<ul> <li>blue (40) 60 -150 l/ha. Medium volume application</li> </ul>				
		be that interluce for use	• yellow (50) - 90-250 l/ha. High volume application				
			Met ✓ Not Met X				
Unit 112	Carry out pre-use checks	Candidate to carry out all pre-use checks relevant to	May include:				
Offic 112	to the prime mover	the prime mover being used	<ul> <li>guards in place and in good condition</li> <li>visual inspection of the wheels and tyres</li> </ul>				
4.2		for the assessment	tyre pressures				
			fuel level adequate				
			engine oil level is within acceptable limits				
			<ul> <li>hydraulic oil level is within acceptable limits (if accessible)</li> </ul>				
			transmission oil level is within acceptable limits (if accessible)				
			coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X				
Unit 112	Carry out pre-use and operational checks to the sprayer	Candidate to carry out all pre-use and operational checks to the	May include all/some of the following as applicable to the sprayer/applicator:				
4.3	οριαγοι	sprayer/applicator					
		Check security of attachment of applicator mechanisms	Safe unfolding of booms to avoid personal contamination and contact with Over Head Power Lines (OHPL) and any other over head hazards				
			fasteners tight				
			straps inspected and adjusted if necessary				
			linkage secure				
Continued			sideways movement restricted				
23.11.11.00			drawbar pin secured				

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

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>*</sup>	TE D
	ORTERIA	Select appropriate nozzle	use of manufacturers operators handbook				
Cont		restrictor using manufacturers literature (if available)	use of manufacturers literature				
Unit 112		interaction (in available)	confirm requirements of product label				
4.4		Set operating pressure for liquid and air	pressure as determined by manufacturers literature				
			pressurise/purge appropriate to the system				
		Check nozzle outputs	use a measuring jug to check output from at least one nozzle per boom section (minimum of three per applicator)				
			<ul> <li>compare with target output</li> </ul>				
			vary pressure to make small adjustments				
			change nozzle restrictors and/or flood jets if required.				
			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				
			<ul> <li>nozzle restrictor fitted</li> <li>air pressure</li> </ul>				
			air pressure     liquid pressure				
			flow rate				
			Met ✓ Not Met X				
	Calculate the quantities of	Candidate to calculate	To include:		Ш		
Unit 112	pesticide and water	quantities required for both a	amount of water required for specified area				
4.5	required for a specified	specified area and full tank	amount of pesticide required for specified area				
4.5	area		amount of pesticide required for full tank				
			Met ✓ Not Met X				
	Measure the required	Candidate to measure and	To include:				
Unit 112	quantities and add to the sprayer	add quantities required for the area specified in 4.5	<ul> <li>correct selection and use of PPE (as required by the product label and/or COSHH Assessment)</li> </ul>				
5.1		Note: This may be a	suitable site selected				
		simulated pesticide product	fill by usual on-site method, following approved procedures				
		product	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				
11 11 440	Demonstrate safe and	Candidate to describe two	May include any of the following;				
Unit 112	accurate application procedures	possible methods to achieve accurate application	• tramlines				
5.2		11	• crop rows				
			<ul><li>blob markers</li><li>marker poles</li></ul>				
			marker dyes				
			use of GPS				
		Candidate to <b>explain</b> the	Explanation to include:				
		appropriate procedure to	avoid contact with contaminated crop				
		follow when the applicator needs refilling part way	mark the spot at which the applicator emptied				
		through an application	refill applicator				
Continued			continue spraying by accurately matching at the appropriate point				
			αρριοριιαίο ροιτί				

CRITERIA ASSESSMENT ASSESSOR ASSESSMENT		_	DIDA	
NUMBER CRITERIA GUIDANCE ACTIVITIES  Candidate to explain the Explanation to include:	Α	В	С	D
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 floor	•		1_	l _
5.2 appropriate				
Candidate to <b>apply</b> pesticide To include:				
to treat a specified area  ensure boom is level or aligned to the ta	arget			
appropriate the candidates normal work situation and correct boom height according to target	and type			
sufficient enough to of nozzle				
demonstrate safe and operate controls to start and finish apply accurately at the beginning and end of				
procedures  • correct forward speed and pressure for conditions	site			
accurate matching of bouts / use of driv				
coping with obstacles				
all of specified area treated, minimising		,   _		
and misses  awareness of changes in wind speed a	nd 🗆			
direction				
	Not Met X			
Carry out all activities Unit 112  Carry out all activities Protecting human health Assessor to be satisfied that  Assessor to be satisfied that  Output  Discrepancy of personal injury and contains the contains th				
and the environment the candidate has carried out through correct selection and use of PF				
5.3 all activities protecting required by the product label and/or CC	SHH		.	_
environment Assessment)	ination			
<ul> <li>prevention of public / bystander contam</li> <li>safe filling procedure</li> </ul>	ination			
avoidance of spray drift				
avoidance of off-target application				
avoidance of over dosing/under dosing		,   _		
crop/target				
	Not Met X	Ш	Ш	Ш
Unit 112   Complete a treatment record must be:  accurate				
• logible (if handwritten)				
5.4 Note to the Assessor. The	Not Met X			
approved by the Assessor (or	Not Met X			
supplied by the Assessor if necessary)				
Explain how to manage Candidate to explain one May include:  Unit 112 surplus pesticide and method of dealing with method with met				
dispose of waste material   surplus concentrate pesticide				
6.1 • return to fixed store				
Candidate to <b>explain two</b> Containers:				
methods of dealing with waste containers and				
packaging    packaging  packaging  placed in secure storage until disposal returned to supplier		_		
collected by a licensed waste disposal of the collected of the collected by a licensed waste disposal of the collected by a license disposa				
Packaging:  ■ thoroughly emptied				
placed in secure storage until disposal				
collected by a licensed waste disposal of the collected by a license of the	contractor			
Candidate to <b>explain two</b> May include:				
methods of dealing with surplus dilute pesticide  • back on to site as long as it is below the	_	.   _		
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
<ul> <li>use on another approved crop/target</li> <li>treated by specialist treatment facility or</li> </ul>	n site (e.a.			
a lined bio bed)	Troite (e.g.			
collected by a licensed waste disposal of the collected by a license disposal of the coll	contractor			

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDAT	ΓF
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	A	В	С	D
	Explain how to clean and	Candidate to explain four	May include:				
Unit 112	decontaminate the sprayer	factors need to be considered	<ul> <li>select and use appropriate PPE</li> </ul>				
6.2	and, if applicable, the prime mover	when cleaning and decontaminating the sprayer	appropriate site				
0.2	p.i.i.e iiie iii	and, if applicable, the prime mover	<ul> <li>thorough washing with water and suitable additive if required</li> </ul>				
			<ul> <li>internal and external surfaces</li> </ul>				
			<ul> <li>use of in-built wash systems if provided</li> </ul>				
			care to ensure contamination 'hot-spots' are clean				
			<ul> <li>thorough flushing of systems</li> </ul>				
			<ul> <li>safe disposal of contaminated washings</li> </ul>				
			<ul> <li>when cleaning should take place</li> </ul>				
			<ul> <li>safe procedures followed</li> </ul>				
			Met ✓ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 112	requirements for the sprayer	factors to consider prior to storing the applicator	<ul> <li>ensure the applicator is clean and dry</li> </ul>				
6.3	spiayei	storing the applicator	<ul> <li>inspect for wear and damage</li> </ul>				
0.0			<ul> <li>replace any worn or damaged parts</li> </ul>				
			<ul> <li>controls left in appropriate positions</li> </ul>				
			<ul> <li>frost protection measures implemented</li> </ul>				
			<ul> <li>lubricate as required</li> </ul>				
			<ul> <li>store undercover and out of direct sunlight</li> </ul>				
			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	A	Name:		Date:	:	Start Time:	Dura	ıtior	): 		
Candidate	В	Name:		Date:	:	Start Time:	Dura	itior	1:		
Candidate	C	Name:		Date:	i	Start Time:	Dura	ition	1:		
Candidate	D	Name:		Date:	:	Start Time:	Dura	itior	1:		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C/ A	ANDI B	IDAT C	ΓE D
Unit 113 1.1	requ app	scribe the legal uirements relating to lying pesticides using zontal boom sprayers	Candidate to <b>describe two</b> 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 equipments all requirements elevant road traffic regulation or transporting on the public Plant Protection Products e) Regulations 2012 at hold the appropriate ne equipment they are using Met V Not I	ns				
11-2-440		scribe how to apply	Candidate to describe one		lay include:		VIGU A				
Unit 113 1.2	hori follo	ticides safely using izontal boom sprayers owing industry best ctice	operator safety regulation i terms of using horizontal boom sprayers	in •	adopt industry be be aware of any	ticides Codes of Practice est practice safety implications imposed sessment and comply with t					
			Candidate to <b>describe two</b> precautions the operator metake to protect self from pesticide contamination who perating the prime mover	nay  nen	use of in-cab cor ensure ventilation close all windown contaminated PF awareness of the components with open cab/canopy/platuse of appropriation	n system is functional s PE stored in external locker e siting of pressurised nin confines of the cab tform: te PPE e siting of pressurised nin confines of the					
			When preparing the prime mover and sprayer, the candidate is to <b>describe three</b> checks which the operator may carry out to protect self from physical danger during operation	M • •	front weights wheel track widtl	sures					
			Candidate to state four aspects of safe practice to considered when driving or uneven/sloping terrain  Candidate to state one consideration for safe driving	be n	select four whee appropriate spee correct gear sele effect of changin use of weights to correct turning p keep centre of glay include:	I drive (if fitted) ed ection g load on stability o stabilise prime mover rocedure ravity as low as possible					
			on a public highway	•		kes coupled together speed makes vehicle unsta Met ✓ Not I					

NUMBER CRITERIA GUIDANCE ACTIVITIES  Unit 113  2.1  Light prisks to the environment environment environment for the application site  Candidate to identify all relevant risks to the environment for the application site  May include:  Trelevant risks to the environment for the application site  May include:  Trelevant risks to the environment all margins/strips/areas  Trelevant risks to the environment environment all margins/strips/areas  Trelevant risks to the environment environment environment all margins/strips/areas  Trelevant risks to the environment envi	<b>A</b>	B	C	<b>D</b>
environment for the application site  environment for the application site  water courses environmental margins/strips/areas drains boreholes wildlife non-target plants sensitive crops/areas hedgerows housing public access other risks particular to the site				
application site  water courses environmental margins/strips/areas drains boreholes wildlife non-target plants sensitive crops/areas hedgerows housing public access other risks particular to the site				
<ul> <li>environmental margins/strips/areas</li> <li>drains</li> <li>boreholes</li> <li>wildlife</li> <li>non-target plants</li> <li>sensitive crops/areas</li> <li>hedgerows</li> <li>housing</li> <li>public access</li> <li>other risks particular to the site</li> </ul>				
<ul> <li>boreholes</li> <li>wildlife</li> <li>non-target plants</li> <li>sensitive crops/areas</li> <li>hedgerows</li> <li>housing</li> <li>public access</li> <li>other risks particular to the site</li> </ul>				
<ul> <li>wildlife</li> <li>non-target plants</li> <li>sensitive crops/areas</li> <li>hedgerows</li> <li>housing</li> <li>public access</li> <li>other risks particular to the site</li> </ul>				
<ul> <li>non-target plants</li> <li>sensitive crops/areas</li> <li>hedgerows</li> <li>housing</li> <li>public access</li> <li>other risks particular to the site</li> </ul>				
<ul> <li>sensitive crops/areas</li> <li>hedgerows</li> <li>housing</li> <li>public access</li> <li>other risks particular to the site</li> </ul>				
<ul> <li>hedgerows</li> <li>housing</li> <li>public access</li> <li>other risks particular to the site</li> </ul>				
<ul> <li>housing</li> <li>public access</li> <li>other risks particular to the site</li> </ul>				
<ul> <li>public access</li> <li>other risks particular to the site</li> </ul>				
other risks particular to the site				
Met ✓ Not Met X			П	
Explain how to minimise Candidate to <b>explain</b> how to Explanation to include the following points:				屵
Unit 113 risks to the environment minimise the risks identified  or check and maintain application rate				
in 2.1				
2.2 • observe buffer zones				
comply with LERAP requirements				
5.500 11.51.11.11.11.11.11.11.11.11.11.11.11.1				
<ul> <li>use an appropriate pesticide (minimal environmental impact)</li> </ul>				
careful timing of application				
Samura and a spipmant.	_			
Candidate to <b>state</b> the • avoidance of contamination to people and the	i			
reason for minimising spray environment				
drift or off target application	i			
Candidate to <b>check</b> and   • use of anemometer at suitable heights or visual	1			
comment on wind speed and signs				
direction  • wind direction				
	_			
Candidate to <b>state five</b> factors that affect spray drift  May include:  • weather conditions	i			
would condition	Ш			
direction of spraying				
nozzle type and size				
air outlet/nozzle angle				
air assistance				
liquid pressure				
forward speed				
boom height				
defective equipment				
Met ✓ Not Met X				
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 and provide relevant  active substance(s) (ingredient(s))				
information as requested by Met ✓ Not Met X				
the Assessor				
Interpret product  Note to the Assessor: A Important information:				
Unit 113 information product label is required. It is expected that the candidate				
3.2   will provide the product label.   • crop/target				
The label provided must be maximum individual dose				
for a currently approved  maximum total dose  product and appropriate to				
product and appropriate to the candidates normal work  • maximum number of treatments				
situation				
Note to the Candidate  specific product precautions/warnings				
(Assessor also to note): It is				
acceptable for key  • environmental protection				
information on the label to be highlighted for use during the				
Continued assessment				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/	AND B	IDA <sup>1</sup>	TE D
	0	00.27.11.02	Crop specific information:				
Cont			crop/target				
Unit 113			dose rate				
			water volume				
3.2			• timing				
			Mixing and spraying:				
			filling				
			reduced volume applications (if applicable)				
			recommended nozzles				
			recommended pressure				
			spray quality				
			additional label information				
			compatibility				
			Met ✓ Not Met X		П	П	
	Identify applicator	Candidate to identify all	May include:				
Unit 113	components and controls	components and controls	main spray tank				
4.4		relating to the applicator being used for the	• pump				
4.1		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				
			<ul><li>clean water tank</li><li>nozzles</li></ul>				
			nozzles     nozzle angle control				
			diaphragm check valves				
			tank drain				
			other components/controls specific to the				
			applicator				
		Identify and explain the use	May include:				
		of <b>two</b> types of nozzle, one of	flat flan – fine/medium/coarse spray				
		which could be that intended for use (if applicable)	air inclusion – medium/coarse spray, low drift				
		Tor use (ii applicable)	cone – fine spray, good coverage				
			Met ✓ Not Met X	П	П	П	
	Carry out pre-use checks	Candidate to carry out all	May include:				
Unit 113	to the prime mover	pre-use checks relevant to	visual inspection of the wheels and tyres				
4.2		the prime mover being used for the assessment	tyre pressures				
7.2			fuel level adequate				
			engine oil level is within acceptable limits				
			hydraulic oil level is within acceptable limits (if accessible)				
			<ul> <li>transmission oil level is within acceptable limits (if</li> </ul>				
			accessible)				
			coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X				
	<u> </u>	1					二

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B	IDA <sup>*</sup>	TE
Unit 113 4.3	Carry out pre-use and operational checks to the sprayer	Candidate to carry out all pre-use and operational checks to the sprayer/applicator	May include all/some of the following as applicable to the sprayer/applicator:				
		Check security of attachment of applicator mechanisms	Safe unfolding of booms to avoid personal contamination and contact with Over Head Power Lines (OHPL) and any other over head hazards     fasteners tight				
			straps inspected and adjusted if necessary     linkage secure     sideways movement restricted				
		Check for mechanical	drawbar pin secured     seized, worn or damaged controls/components				
		defects  Check that the applicator is	identification of lubrication points				
		lubricated correctly	<ul><li>visual inspection of lubrication points</li><li>visual inspection of levels</li></ul>				
		Check boom settings, suspension and break-back devices	<ul> <li>boom suspension operational</li> <li>break-back efficiency</li> <li>height adjustment</li> </ul>				
		Remove, clean and refit a filter	<ul> <li>Candidate to:</li> <li>remove and clean using appropriate method</li> <li>contain spillage</li> <li>check for defects</li> <li>refit</li> </ul>				
		Remove, clean/replace and refit a nozzle	Candidate to:  remove and clean using appropriate method  contain spillage  check for defects  replace if worn/damaged  refit				
		Explain how to use the control panel to ensure that the applicator is functioning correctly (if applicable)	<ul> <li>functions of control panel</li> <li>recognition of malfunctions before and during operation</li> <li>check accuracy of calibration</li> <li>switch to manual/test mode where applicable</li> </ul>				
		Part fill applicator	suitable site selected				
			<ul> <li>fill by usual on-site method, following approved procedures</li> <li>clean water supply</li> </ul>				
		Check applicator for liquid and air leaks, and correct spray patterns	<ul> <li>use higher than normal operating pressure</li> <li>visual check of all nozzles for correct spray patterns, absence of blockages, streaking, pulsing</li> </ul>				
			<ul><li>and correct alignment</li><li>replace defective nozzles</li><li>lids and seals</li></ul>				
			<ul><li>liquid pipe work and connections</li><li>air bag/sleeve</li><li>control valves</li></ul>				
			<ul> <li>filters</li> <li>liquid pressure gauge</li> <li>diaphragm check valves</li> </ul>				
		State one suitable action in the event of the control panel failing (if applicable)	<ul><li>stop pesticide application</li><li>manual operation of controls if possible</li></ul>				
			Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/	AND B	IDA <sup>-</sup>	ΓE
Unit 113	Calibrate the sprayer and record relevant data	Candidate is required to calibrate the applicator and record relevant data					
4.4		Select and record forward	Calibration may include the following:				
		speed	suitable forward speed for crop/target and ground conditions				
			appropriate gear selected and engine speed established (if applicable)				
			accurate measurement of distance				
			accurate measurement of time taken to cover distance				
			correct use of formula to establish forward speed				
		Calculate required output/volume rate	correct use of formula				
		Select appropriate nozzle and air speed using	use of manufacturers operators handbook				
		manufacturers literature (if	use of manufacturers literature     confirm requirements of product label				
		available)	committed an enterity of broader label				
		Set operating pressure for liquid, and set air speed	<ul> <li>liquid pressure as determined by manufacturers literature</li> </ul>				
			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				
		assistance not required when	per applicator)  compare with target output				
		checking nozzle output	vary pressure to make small adjustments				
			change nozzles if required				
			or any other acceptable method				
		State four pieces of	May include:				
		calibration data that should be recorded	registration number of vehicle				
		5010001404	tyre size and pressure				
			<ul><li>gear selected</li><li>engine speed</li></ul>				
			vehicle forward speed				
			application volume				
			nozzles fitted				
			liquid pressure				
			• flow rate				
	Calculate the quantities of	Candidate to calculate	Met ✓ Not Met X To include:		Ш		Ш
Unit 113	pesticide and water	quantities required for both a	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				
	Magazira the required	Condidate to measure and	Met ✓ Not Met X  To include:	Ш	Ш	Ш	Ш
Unit 113	Measure the required quantities and add to the	Candidate to <b>measure</b> and <b>add</b> quantities required for	<ul> <li>correct selection and use of PPE (as required by</li> </ul>				
F 4	sprayer	the area specified in 4.5	the product label and/or COSHH Assessment)				
5.1		Note: This may be a	suitable site selected				
		simulated pesticide product	<ul> <li>fill by usual on-site method, following approved procedures</li> </ul>				
		product	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				
	<u> </u>		<u>l</u>				

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

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>*</sup>	TE D
Unit 113	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				
		human health and the environment	Assessment)     prevention of public / bystander contamination     safe filling procedure				
			avoidance of spray drift				
			<ul> <li>avoidance of off target application</li> <li>avoidance of over dosing/under dosing crop/target</li> </ul>				
	Complete a treatment	Candidate is required to	Met ✓ Not Met X  Completion of the treatment record must be:				
Unit 113	record	complete a treatment record	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				
Unit 113	Explain how to manage surplus pesticide and dispose of waste material	Candidate to <b>explain one</b> method of dealing with surplus concentrate pesticide	May include:         return to temporary mobile store         return to fixed store				
		Candidate to <b>explain two</b> methods of dealing with waste containers and packaging	containers:     triple rinsed     placed in secure storage until disposal     returned to supplier     collected by a licensed waste disposal contractor				
		packaging:  thoroughly emptied  placed in secure storage until disp collected by a licensed waste disp May include:	packaging:  thoroughly emptied				
			collected by a licensed waste disposal contractor May include:				
			<ul> <li>dose rate</li> <li>use on another approved crop/target</li> <li>treated by specialist treatment facility on site (e.g.</li> </ul>				
			a lined bio bed)     collected by a licensed waste disposal contractor				
	Explain how to clean and	Candidate to explain four	Met ✓ Not Met X  May include:				
Unit 113 6.2	decontaminate the sprayer and, if applicable, the prime mover	factors that need to be considered when cleaning and decontaminating the sprayer and, if applicable, the	<ul> <li>select and use appropriate PPE</li> <li>appropriate site</li> <li>thorough washing with water and suitable additive</li> </ul>				
		prime mover	<ul> <li>if required</li> <li>internal and external surfaces</li> <li>use of in-built wash systems if provided</li> <li>care to ensure contamination 'hot-spots' are clean</li> </ul>				
			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:				
6.3	sprayer	storing the applicator	ensure the applicator is clean and dry     inspect for wear and damage				
			<ul> <li>replace any worn or damaged parts</li> <li>controls left in appropriate positions</li> <li>frost protection measures implemented</li> </ul>				
			lubricate as required     store undercover and out of direct sunlight				
			store in a secure area  Met ✓ Not Met X				

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

Candidate	A N	Name:		Date:	:	Star	t Time:	Dura	ation	1:		
Candidate	B	Name:		Date	:	Star	t Time:	Dura	atior	1:		
Candidate	e C N	Name:		Date:	:	Star	t Time:	Dura	atior	1:		
Candidate	D N	Name:		Date:	:	Star	t Time:	Dura	ation	1:		
CRITERIA NUMBER	<b>A</b>	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			ASSESS ACTIV			C.	AND B	IDAT C	E D
Unit 114	require applyi	ibe the legal ements relating to ng pesticides using ype applicators	Candidate to describe two operator's obligations in terms of legal requirements		complies with	rith legal req n all relevant	in place and equipmouirements troad traffic regulations	ons				
				•	highway comply with (Sustainable	n The Plant I le Use) Regi	Protection Products ulations 2012)	,				
				•			the appropriate ipment they are using Met✓ Not I					
11 % 444		ibe how to apply	Candidate to describe one		May include:		Met Not	INIEL V				Ш
Unit 114 1.2	wick ty	ides safely using ype applicators ing industry best	operator safety regulation i terms of using wick type applicators	•	adopt indus	stry best pra	Codes of Practice ctice implications imposed	d by				
	praotic					H Assessm	ent and comply with					
			Candidate to <b>describe two</b> precautions the operator make to protect self from pesticide contamination who perating the prime mover	nay •	use of in-ca ensure vent close all wir contaminate  Dpen cab/canop	ab controls tilation systendows ed PPE stor by/platform:	em is functional red in external locker					
			When preparing the prime mover and applicator, the candidate is to <b>describe three</b> checks which the operator may carry out to protect self from physical danger during operation	N	May include: compatibility front weight wheel track correct tyre condition of	ts width pressures f tyres	nover and sprayer					
			Candidate to <b>state four</b> aspects of safe practice to considered when driving or uneven/sloping terrain  Candidate to <b>state one</b> consideration for safe driving on a public highway	be of the state of	select four value appropriate correct geal effect of challenge correct turn keep centre May include:	wheel drive e speed ir selection anging load this to stabiliting procedu- e of gravity a	on stability ise prime mover					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>1</sup>	TE D
Unit 114	Identify risks to the	Candidate to identify all relevant risks to the	May include:				
Unit 114	environment	environment for the	<ul><li>ground conditions</li><li>water courses</li></ul>				
2.1		application site	environmental margins/strips/areas				
			• drains				
			boreholes				
			wildlife				
			non-target plants				
			<ul><li>sensitive crops/areas</li><li>hedgerows</li></ul>				
			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 114	risks to the environment	minimise the risks identified in <b>2.1</b>	check and maintain application rate				
2.2		2.1	observe buffer zones				
			inform neighbours				
			erect warning signs     voc an entrapriate posticide (minimal)				
			use an appropriate pesticide (minimal environmental impact)				
			careful timing of application				
		0 111 1 1 1 1					
		Candidate to <b>state</b> the reason for minimising off	avoidance of contamination to people and the environment				
		target application	Met ✓ Not Met X				
	Read product information	The candidate is required to	The following to be provided:				
Unit 114	Interpret product	read and interpret the information on a product label	product name				
3.1	information	and provide relevant	active substance(s) (ingredient(s))				
		information as requested by the Assessor	Important information:				
3.2		1110 70303301	field of use				
		Note to the Assessor: A product label is required. It is	crop/target				
		expected that the candidate	maximum individual dose				
		will provide the product label. The label provided must be	maximum total dose     maximum number of treatments				
		for a currently approved	Thanham number of treatments				
		product and appropriate to the candidates normal work	specific product precautions/warnings				
		situation	operator protection				
		Note to the Candidate	environmental protection				
		(Assessor also to note): It is	restrictions on use				
		acceptable for key	Crop specific information:				
		information on the label to be highlighted for use during the	crop/target				
		assessment	• dose rate				
			• timing				
			dilution rate				
			mixing and filling				
			additional label information				
			compatibility				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 114	Identify applicator components and controls	Candidate to <b>identify all</b> components and controls	May include:				
	25poorito di la controlo	relating to the applicator	main tank     wick				
4.1		being used for the assessment	• pump				
		a social in the second in the	filling control and devices				
			agitation control				
			pressure adjustment control				
			pressure gauge				
			• on/off control				
Continued			filters     clean water tank				
			- Cican water tank				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>*</sup>	TE D
	ORTERIA	COIDAIGE	nozzles/distribution system				
Cont			diaphragm check valves				
Unit 114			tank drain				
4.1			other components/controls specific to the applicator				
			Met ✓ Not Met X				
	Carry out pre-use checks	Candidate to carry out all	May include:				
Unit 114	to the prime mover	pre-use checks relevant to	guards in place and in good condition				
4.2		the prime mover being used for the assessment	visual inspection of the wheels and tyres				
			tyre pressures     fuel level adequate				
			engine oil level is within acceptable limits				
			hydraulic oil level is within acceptable limits (if accessible)				
			transmission oil level is within acceptable limits (if accessible)				
			coolant level is adequate				
			engine air filter is clean				
	0	On a listate to a serve and all	Met ✓ Not Met X	Ш	Ш	Ш	빝
Unit 114	Carry out pre-use and operational checks to the applicator	Candidate to carry out all pre-use and operational checks to the applicator	May include all/some of the following as applicable to the applicator:				
4.3		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     electrical connectors				
			condition of wick				
		<b>Check</b> that the applicator is	identification of lubrication points				
		lubricated correctly	visual inspection of lubrication points				
			visual inspection of levels				
		Remove, clean and refit a	Candidate to:				
		filter	remove and clean using appropriate method				
			contain spillage				
			check for defects     refit				
		Part fill applicator					
		Part fill applicator	To include:  • suitable site selected				
			fill by usual on-site method, following approved				
			procedures				
			clean water supply				
		Check applicator for leaks and correct distribution	May include:     visual check of all nozzles/distribution system for average application to wick.				
			even application to wick     replace defective nozzles/distribution system				
			components				
			lids and seals     pipe work and connections				
			<ul><li>pipe work and connections</li><li>control valves</li></ul>				
			• filters				
			pressure gauge				
			diaphragm check valves				
			Met ✓ Not Met X				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDAT	TE D
Unit 114	Set up the applicator and record relevant data	Candidate is required to <b>set up</b> the applicator and record	Set up may include the following:				
4.4		relevant data Select forward speed	suitable forward speed for target and ground conditions				
		Check frame settings	height adjustment				
		Prime wick	travel slowly forward to ensure even distribution     time required to prime wick (wet/dry)				
			adjust flow rate to wick				
		State two pieces of operational data that should be recorded	May include:  • registration number of vehicle				
		be recorded	gear selected     priming time for wick				
			<ul><li>priming time for wick</li><li>liquid pressure (if applicable)</li></ul>				
			flow rate setting				
			Met ✓ Not Met X				
Unit 114	Calculate the quantities of pesticide and water	Candidate to <b>calculate</b> quantities required for both a	To include:  amount of water required for specified area				
4.5	required for a specified area	specified area and full tank	amount of pesticide required for specified area				
4.5	arca		amount of pesticide required for full tank				
			Met ✓ Not Met X				
Unit 444	Measure the required	Candidate to measure and	To include:				
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	fill by usual on-site method, following approved				
		product	procedures				
			clean water supply     accurate measurement of water				
			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	Condidate to describe two	Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 114	Demonstrate safe and accurate application	Candidate to <b>describe two</b> possible methods to achieve	May include any of the following:  • blob markers				
5.2	procedures	accurate application	marker poles				
3.2			applicator wheelings				
			use of GPS				
		Candidate to <b>explain</b> the	Explanation to include:				
		appropriate procedure to follow when the applicator	avoid contact with contaminated crop				
		needs refilling part way	mark the spot at which the applicator emptied     refill applicator				
		through an application	<ul> <li>refill applicator</li> <li>continue application by accurately matching at the appropriate point</li> </ul>				
		Candidate to describe one	May include:				
		problem relating to	increased saturation of lowest side of wick				
		application that could occur when working on sideways (laterally) sloping ground	decreased saturation of highest side of wick				
		Candidate to <b>explain</b> the	Explanation to include:				
		appropriate procedure to	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.	AND B	IDA <sup>-</sup>	TE D
NOWIDER	ONTENIA	Candidate to apply pesticide	To include:	A	В	C	U
Cont		to treat a specified area appropriate to the candidate's	ensure wick is level or aligned to the target				
Unit 114		normal work situation and	correct wick height according to target     operate controls to start and finish applying				
5.2		sufficient to demonstrate safe and accurate application	accurately to the target				
		procedures	avoidance of over-saturating wick				
			avoidance of under-saturating wick     correct forward speed for site conditions				
			'				
			accurate matching of bouts/use of driving aids     coping with obstacles				
			all of specified area treated, minimising overlaps				
			and misses				
			Met ✓ Not Met X				
Unit 114	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	<ul> <li>prevention of personal injury and contamination through correct selection and use of PPE (as</li> </ul>				
5.3		all activities protecting human health and the	required by the product label and/or COSHH				
		environment	Assessment)  • prevention of public/bystander contamination				
			safe filling procedure				
			avoidance of drips from wick				
			avoidance of off target application				
			avoidance of over dosing/under dosing crop/target				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 114	Complete a treatment record	Candidate is required to complete a treatment record	Completion of the treatment record must be:  accurate				
- 4		Note to the Assessor: The	legible (if handwritten)				
5.4		treatment record must be	Met ✓ Not Met X	П			П
		approved by the Assessor (or supplied by the Assessor if	met v Het met X				
		necessary)					
Unit 114		Candidate to <b>explain one</b> method of dealing with	May include:				L
		surplus concentrate pesticide	return to temporary mobile store     return to fixed store				
6.1		Candidate to <b>explain two</b>	Containers:				
		method of dealing with waste	triple rinsed				
		containers and packaging	placed in secure storage until disposal				
			returned to supplier				
			collected by a licensed waste disposal contractor				
			Packaging:				
			thoroughly emptied     placed in secure storage until disposal				
			collected by a licensed waste disposal contractor				
		Candidate to explain two	May include:				
		methods of dealing with	back on to site as long as it is below the maximum				
		surplus dilute pesticide	dose rate				
			<ul> <li>use on another approved crop/target</li> <li>treated by specialist treatment facility on site (e.g.</li> </ul>				
			a lined bio bed)				
			collected by a licensed waste disposal contractor				
			Met ✓ Not Met X				
Unit 114	Explain how to clean and decontaminate the	Candidate to <b>explain four</b> factors that need to be	May include:				
	applicator and, if	considered when cleaning	<ul><li>select and use appropriate PPE</li><li>appropriate site</li></ul>				
6.2	applicable, the prime mover	and decontaminating the applicator and, if applicable,	thorough washing with water and suitable additive				
		the prime mover	if required				
			<ul><li>internal and external surfaces</li><li>cleaning of the wick</li></ul>				
			thorough flushing of systems				
			safe disposal of contaminated washings				
			when cleaning should take place				
			safe procedures followed				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	С	AND	IDAT	ſΕ
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	<ul> <li>ensure the applicator is clean and dry</li> </ul>				
6.3	applicator	storing the applicator	<ul> <li>inspect for wear and damage</li> </ul>				
0.3			<ul> <li>replace any worn or damaged parts</li> </ul>				
			<ul> <li>controls left in appropriate positions</li> </ul>				
			<ul> <li>frost protection measures implemented</li> </ul>				
			lubricate as required				
			store undercover and out of direct sunlight				
			• store in a secure area				
			Met ✓ Not Met X				

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

Candidate	A Name:		Da	ite:	Start Time:	Dura	atior	):		
Candidate	B Name:		Da	ite:	Start Time:	Dura	atior	):		
Candidate	C Name:		Da	ite:	Start Time:	Dura	atior	):		
Candidate	D Name:		Da	ite:	Start Time:	Dura	atior	):		
CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C.	AND B	IDA <sup>1</sup>	ΓE
Unit 115	Describe the legal requirements relating to applying pesticides using vehicle mounted kerb sprayers	Candidate to describe two operator's obligations in terms of legal requirements	_	complies with le comply with all r when operating highway comply with The (Sustainable Us	rds are in place and equipme gal requirements relevant road traffic regulation or transporting on the public e Plant Protection Products e) Regulations 2012 st hold the appropriate	ns				
					he equipment they are using  Met✓ Not I	•				
Unit 115	Describe how to apply pesticides safely using vehicle mounted kerb sprayers following industry best practice	Candidate to <b>describe one</b> operator safety regulation iterms of using vehicle mounted kerb sprayers		adopt industry b of non-porous si of surface and g	sticides Codes of Practice lest practice particular in res urfaces and risk of contamin ground water	pect ation			]	
		Candidate to <b>describe two</b> precautions the operator m take to protect self from pesticide contamination who perating the prime mover	nay	Risk/COSHH As requirements  Cabbed:     fit carbon filter     use of in-cab co     ensure ventilation close all window     contaminated Pl     awareness of th	on system is functional					
					ate PPE e siting of pressurised hin confines of the					
		When preparing the prime mover and sprayer, the candidate is to <b>describe three</b> checks which the operator may carry out to protect self from physical danger during operation		May include:	prime mover and sprayer h ssures					
		Candidate to state four aspects of safe practice to considered when driving or uneven/sloping terrain  Candidate to state one		<ul><li>correct turning p</li><li>keep centre of g</li></ul>	ed ection ng load on stability					
		candidate to <b>state one</b> consideration for safe driving on a public highway	ng	May include:  travelling at high slow moving veh	n speed makes vehicle unsta nicle protocols Met ✓ Not I					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA1	TE D
	Identify risks to the	Candidate to identify all	May include:			Ť	
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-torget plants				
			non-target plants     sensitive crops/areas				
			<ul><li>sensitive crops/areas</li><li>hedgerows</li></ul>				
			• housing				
			public access				
			other risks particular to the site				
			Met ✓ Not Met X				
	Explain how to minimise	Candidate to <b>explain</b> how to	Explanation to include the following points:				=
Unit 115	risks to the environment	minimise the risks identified	check and maintain application rate				
2.2		in <b>2.1</b>	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				
			Carotal tilling of application				
		Candidate to <b>state</b> the reason for minimising spray drift or off target application	avoidance of contamination to people and the environment				
		Candidate to <b>check</b> and	use of anemometer at suitable heights or visual				
		comment on wind speed and direction	signs  wind direction				
		Candidata to atata five					
		Candidate to <b>state five</b> factors that affect spray drift	May include:  • weather conditions				
			direction of spraying				
			nozzle type and size				
			• pressure				
			forward speed				
			nozzle height				
			rotary atomiser speed				
			defective equipment				
			Met ✓ Not Met X				
	Read product information	The candidate is required to	The following to be provided:				<del>                                     </del>
Unit 115	Interpret product	read and interpret the information on a product label	product name				
3.1	Interpret product information	and provide relevant	<ul> <li>active substance(s) (ingredient(s))</li> </ul>				
"		information as requested by	Important information:				
3.2		the Assessor	• field of use				
		Note to the Assessor: A	• target				
		product label is required. It is	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				
		Note to the Oc. 1914	environmental protection				
		Note to the Candidate (Assessor also to note): It is	restrictions on use				
		acceptable for key	Target specific information:				
		information on the label to be highlighted for use during the	target				
		assessment	dose rate				
Continued			water volume				
Continued			• timing				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>*</sup>	TE D
		0010111100	mixing and spraying:				
Cont			filling     recommended nozzles				
Unit 115			recommended pressure				
3.1			spray quality				
2.2			additional label information				
3.2			Met ✓ Not Met X				
	Identify applicator	Candidate to identify all	May include:		屵		۳
Unit 115	components and controls	components and controls	main spray tank				
4.1		relating to the applicator being used for the	• pump				
		assessment	filling control and devices				
			agitation control				
			pressure adjustment control     pressure gauge				
			pressure gauge     on/off control				
			boom isolators				
			• filters				
			tank wash system				
			clean water tank				
			nozzles/atomisers/spray heads				
			diaphragm check valves				
			tank drain				
			other components/controls specific to the applicator				
		Identify and explain the use	May include:				
		of <b>one</b> type of nozzle, which	Flat flan – fine/medium/coarse spray				
		could be that intended for use (not applicable to Rotary	Air inclusion – medium/coarse spray, low drift				
		Atomiser sprayers)	Met ✓ Not Met X				
11-11-445	Carry out pre-use checks	Candidate to carry out all	May include:				
Unit 115	to the prime mover	pre-use checks relevant to the prime mover being used	visual inspection of the wheels and tyres				
4.2		for the assessment	tyre pressures				
			fuel level adequate/motive batteries charged     oil level(s) within acceptable limits				
			coolant level is adequate				
			engine air filter is clean				
			Met ✓ Not Met X			П	
	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				
Continued			check for defects				
Jonanaea			refit				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	A	AND	C	TE D
	<u> </u>	Remove, clean/replace and	Candidate to:	<del></del>		-	† <b>-</b>
Cont		refit a	remove and clean using appropriate method				
Unit 115		nozzle/restrictor/spray	contain spillage				
Unit 115		head	check for defects				
4.3			replace if worn/damaged				
4.0			• refit				
			- Tont				
		Explain how to use the	functions of control panel				
		control panel to ensure that	<ul> <li>recognition of malfunctions before and during</li> </ul>				
		the applicator is functioning	operation				
		correctly (if applicable)	switch to manual/test mode where applicable				
		Part fill applicator or attach	<ul> <li>suitable site selected</li> </ul>				
		pesticide container	• fill by usual on-site method, following approved				
			procedures				
			<ul> <li>clean water supply</li> </ul>				
			• or				
			attach pesticide container				
		Check applicator for leaks	<ul> <li>use higher than normal operating pressure</li> </ul>				
		and correct spray patterns	<ul> <li>visual check of all nozzles/atomisers/spray head</li> </ul>				
			for correct spray patterns, absence of blockages				
			streaking and pulsing				
			<ul> <li>replace defective nozzles/atomisers/spray head</li> </ul>				
			<ul> <li>lids and seals</li> </ul>				
			<ul> <li>pipe work and connections</li> </ul>				
			<ul> <li>control valves</li> </ul>				
			• filters				
			<ul> <li>pressure gauge</li> </ul>				
			diaphragm check valves				
		State one suitable action in	<ul> <li>stop pesticide application</li> </ul>				
		the event of the control panel	<ul> <li>manual operation of controls if possible</li> </ul>				
		failing (if applicable)	Met ✓ Not Met	<b>.</b>			
	Calibrata tha annous and	Condidate is negrited to		`		Ľ	屵
Unit 115	Calibrate the sprayer and record relevant data	Candidate is required to calibrate the applicator and record relevant data	Calibration may include the following:				
4.4							
		Select and record forward	<ul> <li>suitable forward speed for target and ground</li> </ul>				
		speed	conditions				
			appropriate gear selected and engine speed		_		_
			established (if applicable)				
			<ul> <li>accurate measurement of distance</li> </ul>				
			accurate measurement of time taken to cover			l	_
			distance	.   💾			
			<ul> <li>correct use of formula to establish forward speed</li> </ul>	'   🗆			
		Calculate required	correct use of formula				
		output/volume rate	3011001 400 01 101111414				
		Select appropriate	use of manufacturers operators handbook				
		nozzle/atomiser/spray head	<ul> <li>use of nozzle/atomiser/spray head manufacture</li> </ul>				
		using manufacturers literature	literature	"   <sub>□</sub>			
		(if available)	confirm requirements of product label				
		Set operating pressure/disc	<ul> <li>pressure as determined by nozzle chart</li> </ul>				
		speed	<ul> <li>disc speed as determined by manufacturers</li> </ul>				
			literature				
			<ul> <li>pressurise/purge appropriate to the system</li> </ul>				
		Check nozzle/atomiser/spray	Use a measuring jug to check				
		head outputs	<ul> <li>use a measuring jug to check nozzle/atomiser/spray head output</li> </ul>				
			compare with target output				
			<ul> <li>vary pressure/flow rate to make small adjustment</li> </ul>				
Continued			• change nozzles/atomisers/spray heads if require				
1			<ul> <li>Or any other acceptable method</li> </ul>				

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA <sup>-</sup>	TE D
Cont		State four pieces of calibration data that should	May include:				
		be recorded	<ul><li>registration number of vehicle</li><li>tyre size and pressure</li></ul>				
Unit 115			gear selected				
4.4			engine speed				
			vehicle forward speed				
			application volume				
			nozzle/atomiser/spray head fitted				
			<ul><li>pressure/disc speed</li><li>flow rate</li></ul>				
			Met ✓ Not Met X				
	Calculate the quantities of	Candidate to calculate	To include:				屵
Unit 5	pesticide and water	quantities required for both a	amount of water required for specified area				
4.5	required, if applicable	specified area and full tank	amount of pesticide required for specified area				
7.5			amount of pesticide required for full tank				
			Met ✓ Not Met X				
Unit 115	Measure the required guantities and add to the	Either: Candidate to measure and	To include:				
Onit 115	sprayer or attach pesticide	add quantities required for	<ul> <li>correct selection and use of PPE (as required by the product label and/or COSHH Assessment)</li> </ul>				
5.1	container	the area specified in 4.5	suitable site selected				
		Note: This may be a	fill by usual on-site method, following approved				
		simulated pesticide	procedures				
		product	clean water supply     accurate measurement of water				
			accurate measurement of water     accurate measurement of pesticide				
			correct filling procedure				
			avoidance of spillage				
			observance of pesticide manufacturers				
		Or:	instructions for mixing and agitation				
		Candidate to attach pesticide	To include:				
		container to applicator	<ul> <li>correct selection and use of PPE (as required by the product label and/or COSHH Assessment)</li> </ul>				
			suitable site selected				
			container undamaged				
			correct procedure for attaching container				
			avoidance of spillage				
			check for leakage				
	Demonstrate and and	On all late to combain the	Met ✓ Not Met X	Ш	Ш	Ш	빋
Unit 115	Demonstrate safe and accurate application	Candidate to <b>explain</b> the appropriate procedure to	Explanation to include:         avoid contact with contaminated area				
	procedures	follow when the applicator	mark the spot at which the applicator emptied				
5.2		needs refilling part way through an application	refill applicator				
			continue spraying by accurately matching at the				
			appropriate point				
		Candidate to <b>explain</b> the	Explanation to include:				
		appropriate procedure to follow when a	select and use appropriate PPE				
		nozzle/restrictor/spray head	care not to walk on contaminated area     clean or replace nozzle/restrictor/spray head as				
		becomes blocked during an application	appropriate				
		Candidate to <b>apply</b> pesticide	To include:				
		to treat a specified area	ensure spray head is aligned to the target				
		appropriate the candidates normal work situation and	correct spray head height to achieve compliance				
		sufficient to demonstrate safe	with hard-surface recommendations				
		and accurate application procedures	operate controls to apply accurately     correct forward speed and pressure for site				
		F.000000100	conditions				
			coping with obstacles				
			all of specified area treated				
			awareness of changes in wind speed and direction				
ĺ							
			Met ✓ Not Met X				11 1

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C.	AND B	IDA1	ΓE
	Carry out all activities	Note to the Assessor:	To include:				_
Unit 115	protecting human health	Assessor to be <b>satisfied</b> that	prevention of public / bystander contamination				
<b>5</b> 2	and the environment	the candidate has carried out all activities protecting	prevention of personal injury and contamination				
5.3		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     sycidance of aproveditt				
			avoidance of spray drift				
			avoidance of off target application				
			avoidance of over dosing/under dosing target				
	_		Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 115	Complete a treatment record	Candidate is required to complete a treatment record	Completion of the treatment record must be:				l
Omit 110	100014	complete a treatment record	accurate     la gible (if handwritten)				
5.4		Note to the Assessor: The	legible (if handwritten)				
		treatment record must be	Met ✓ Not Met X				
		approved by the Assessor (or supplied by the Assessor if					
		necessary)					
	Explain how to manage	Candidate to explain one	May include:				
Unit 115	surplus pesticide and	method of dealing with	return to temporary mobile store				
6 1	dispose of waste material	surplus concentrate pesticide	return to fixed store				
6.1		Candidate to explain two	Containers:				
		methods of dealing with	triple rinsed				
		waste containers and	placed in secure storage until disposal				
		packaging	returned to supplier				
			collected by a licensed waste disposal contractor				
			Packaging:		_		_
			thoroughly emptied	Ш			
			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				
		surplus ullute pesticide	dose rate				
			use on another approved target				
			<ul> <li>treated by specialist treatment facility on site (e.g. a lined bio bed)</li> </ul>				
			collected by a licensed waste disposal contractor				
			Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 115	Explain how to clean and decontaminate the sprayer	Candidate to explain four factors that need to be	May include:				_
OIIIL 113	and, if applicable, the	considered when cleaning	select and use appropriate PPE				
6.2	prime mover	and decontaminating the	appropriate site				
		sprayer and, if applicable, the	<ul> <li>thorough washing with water and suitable additive if required</li> </ul>				
		prime mover	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	Ш	Ш	Ш	쁘
Unit 115	Describe the storage requirements for the	Candidate to <b>describe three</b> factors to consider prior to	May include:				
5t 115	applicator	storing the applicator	ensure the applicator is clean and dry				
	• •	G	inspect for wear and damage				
6.3			replace any worn or damaged parts				
6.3							
6.3			controls left in appropriate positions	l			
<b>6.3</b>			frost protection measures implemented				
6.3			<ul><li>frost protection measures implemented</li><li>lubricate as required</li></ul>				
6.3			<ul> <li>frost protection measures implemented</li> <li>lubricate as required</li> <li>store undercover and out of direct sunlight</li> </ul>				
6.3			<ul><li>frost protection measures implemented</li><li>lubricate as required</li></ul>				

Summary of Asses	ssment (The A	Assessor is to co	omplete the	followina as	appropriate)
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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: D	ate:					
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: D						
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 ob	I observed an assessment process taking place and I am satisfied that the assessment was conducted in line with the qualification requirements.						
I observed an assessment process taking place. The following were noted as areas of concern.							
Signed: Date:							