# CITY & GUILDS LEVEL 2 AWARD IN THE SAFE APPLICATION OF PESTICIDE MISTS, FOGS AND SMOKES (PA9) 601/5148/1



# **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 7	L2 Award in the Safe Application of Pesticide Mists, Fogs and Smokes (PA9)
Unit(s)	1 8 1	Applying Pesticide Mists, less than 100 Microns VMD Indoors (PA9A) (A/505/7770)
	1 8 2	Applying Pesticide Mists, less than 100 Microns VMD Outdoors (PA9B) (F/505/7771)
	1 8 3	Applying Pesticide Fogs, less than 100 Microns VMD Indoors (PA9C) (K/505/7781)
	1 8 4	Applying Pesticide Smokes Indoors (PA9D) (A/505/7784)
Guided Learning	1 8 1	GLH 28 (Credit Value 3)
Hours (GLH)	1 8 2	GLH 28 (Credit Value 3)
	1 8 3	GLH 28 (Credit Value 3)
	1 8 4	GLH 28 (Credit Value 3)
Total		
Qualification Time (TQT)		Minimum 30 Hours
Recommended Assessment Duration		1.5 – 3 hours per Candidate
Pre-Requisite Units	1 0 1	Principles of Safe Handling and Application of Pesticides (PA1)

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

### City & Guilds Level 2 Award in the Safe Application of Pesticide Mists, Fogs and Smokes (PA9) Qualification Guidance

#### Introduction

The scheme will be administered by City & Guilds

#### City & Guilds will:

Publish - Scheme regulations - Qualification guidance - Training material - Trainers support material Approve Centres to co-ordinate and administer the scheme Set standards for the training of Verifiers and Assessors Recruit, train and deploy Verifiers Manage verification Issue Certificates to successful Candidates

#### The Qualification

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

#### Training

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

#### **Total Qualification Time**

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

#### Access to Assessment

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

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

The assessment consists of four optional units:

Unit 181 (PA	9A)	(Optional)	(Credit Value 3)	(Print pages 5 – 9 plus 21)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess Be able to read a Be able to prepar Be able to operat		(Criteria 4.1 – 4.6) – 5.4)
Unit 182 (PA	.9B)	(Optional)	(Credit Value 3)	(Print pages 10 – 13 plus 21)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess Be able to read a Be able to prepar Be able to operat		(Criteria 4.1 – 4.6) – 5.4)
Unit 183 (PA9C)		(Optional)	(Credit Value 3)	(Print pages 14 – 17 plus 21)
	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6.	Be able to assess Be able to read a Be able to prepar Be able to operat		(Criteria 4.1 – 4.6) – 5.4)
Unit 184 (PA	.9D)	(Optional)	(Credit Value 3)	(Print pages 18 – 21)
Candidates n	Outcome 1. Outcome 2. Outcome 3. Outcome 4. Outcome 5. Outcome 6. nust successfully	Be able to assess Be able to read a Be able to prepar Be able to carry o Know how to carr		(Criteria 4.1 – 4.2) ely (Criteria 5.1 – 5.4) res (Criteria 6.1 – 6.2)

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

#### Quality Assurance

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

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

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

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

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

#### Performance Evaluation

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

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

#### Appeals and Equal Opportunities

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

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

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

#### Validation of Equipment

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

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

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

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

#### Safe Practice

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

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

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

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

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

#### Information

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

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

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

#### Assessment Guidance for the Assessor

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

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

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

#### Assessment Guidance for the Candidate

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

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

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

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

The Qualification Guidance contains criteria relating to:

- Observation of practical performance
- Assessment of underpinning knowledge

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T +44 (0)24 7685 7300 F +44 (0)24 7669 6128 <u>www.nptc.org.uk</u> e-mail: <u>information@cityandguilds.com</u>

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

## Unit 181 – Applying Pesticide Mists, less than 100 Microns VMD Indoors (PA9A)

Candidate	Α	Name:		Date	:	Start Time:	Dura	atior	n:		
Candidate	в	Name:		Date	:	Start Time:	Dura	atior	n:		
Candidate	C	Name:		Date	:	Start Time:	Dura	atior	n:		
Candidate	D	Name:		Date	:	Start Time:	Dura	atior	n:		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C. A	AND B	IDA1 C	TE D
Unit 181 1.1	requ app	cribe the legal lirements relating to lying pesticides using ling equipment indoors	Outline two operator's obligations in terms of lega requirements		<ul> <li>complies with lease comply with all respectively with all respectively with all respectively with a second s</li></ul>	ds are in place and equipr gal requirements elevant road traffic regulat or transporting on the publ Plant Protection Products e) Regulations 2012 st hold the appropriate he equipment they are usin Met ✓ Not	ons ic				
Unit 181 1.2	pesi misi follo	cribe how to apply ticides safely using ting equipment wing industry best tice	<b>Describe three</b> operator safety requirements in tern of using misting equipment indoors	ns 🖕	<ul><li>adopt industry b</li><li>be aware of any</li></ul>	vant Pesticide Codes of Pr	actice				
	Ider	tify risks to the	Candidate to <b>identify all</b>	•	<ul> <li>be aware of the pesticides in a c</li> <li>May include:</li> </ul>	increased risk of applying onfined area Met ✔ Not	Met X				
Unit 181 2.1		ronment	relevant risks to the environment for the application site		<ul> <li>water courses</li> <li>drains</li> <li>boreholes</li> <li>wildlife</li> <li>non-targets</li> </ul>	s/co-workers	Mot Y				
Unit 181 2.2		lain how to minimise s to the environment	Candidate to <b>explain</b> how minimise the risks identifie in <b>2.1</b>		<ul> <li>use of an approp</li> <li>careful timing of</li> <li>check and maint</li> <li>close ventilation</li> <li>seal the building</li> <li>display warning</li> <li>integrity of the st</li> </ul>	e the following points: priate pesticide application tain application rate system signs	mot A				
			Candidate to <b>check</b> and <b>comment</b> on wind speed a direction Candidate to <b>state</b> the	•	signs wind direction effect of wind su						
			Candidate to <b>state</b> the reason for minimising off target application		environment	ntamination to people and Met ✓ Not					

		ASSESSOR					1
NUMBER	CRITERIA Read product information	GUIDANCE The candidate is required to	ACTIVITIES The following to be provided if applicable:	Α	В	С	D
Unit 181	Read product information	read and interpret the	The following to be provided if applicable.				
	Interpret product	information on a product label	product name				
3.1	information	and provide <b>relevant</b> information as requested by	<ul> <li>active substance(s) (ingredient(s))</li> </ul>				
Unit 181		the Assessor	Important information:				
3.2		Note to the Assessor: A	field of use				
3.2		product label is required. It is	crop/target				
		expected that the candidate will provide the product label	maximum individual dose				
		will provide the product label	maximum total dose				
		The label provided must be for a currently approved	maximum number of treatments				
		product and appropriate to	<ul> <li>specific product precautions/warnings</li> </ul>				
		the candidates normal work situation	<ul> <li>reduced volume applications (if applicable)</li> </ul>				
		ondenon	operator protection				Ľ
		Note to the Candidate	<ul> <li>environmental protection</li> </ul>				Ľ
		(Assessor also to note): It is acceptable for key information on the label to be	restrictions on use				
		highlighted for use during the	Target specific information:				
		assessment	crop/target				
			dose rate				
			water volume				
			• timing				
			Mixing and spraying:				
			• filling				[
		<ul> <li>recommended nozzle/diffuser</li> </ul>				[	
		recommended pressure					
			additional label information				
			compatibility				E
			Met ✔ Not Met X				
Unit 181	Carry out pre use checks to the applicator	Candidate to <b>carry out all</b> pre-use checks <b>relevant</b> to the applicator being used for	May include: applicator components to be inspected for serviceability and contamination that may include:				
4.1		the assessment	• guards				E
			• tank				
			• lid				
			hoses				E
			connections				E
			• seals				E
			on/off control				E
			delivery tubes				[
			straps				
			<ul> <li>pump (visual assessment only)</li> </ul>				
			power source				
			anti-vibration mounts				
			To include:				
			applicator checked for leaks				
			<ul> <li>any problems identified to be rectified if within operators level of responsibility and ability</li> </ul>				_
			<ul> <li>condition confirmed as suitable for operation</li> </ul>				
	Adjust settings appropriate	Candidate to <b>adjust</b> settings	Met ✓ Not Met X May include:	$\vdash$			₽
Unit 181	to the application	appropriate to the application	engine settings				[
	requirements	requirements	<ul> <li>appropriate nozzle/diffuser/baffle</li> </ul>				
4.2			<ul> <li>flow rate setting</li> </ul>				
			Ũ				Ľ
		1	Met ✓ Not Met X		II I	11 1	11

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT				1
NUMBER	CRITERIA Calibrate the applicator	GUIDANCE The candidate is required to	ACTIVITIES To include:	Α	В	С	D
Unit 181	Calibrate the applicator and record relevant data	calibrate the applicator and	safe procedure				
		record relevant data	<ul> <li>sale procedure</li> <li>accurate measurement</li> </ul>				
4.3			<ul> <li>accurate measurement</li> <li>accurate result</li> </ul>				
		Note to the Assessor: Any method of calibration may be					
		used providing it is capable of					
		allowing for safe working					
		practice and accurate placement of the pesticide					
		placement of the pesticide					
		State three pieces of	May include:				
		calibration data that should be recorded	applicator used				
			flow rate setting				
			<ul> <li>walking speed/application time</li> </ul>				
			nozzle/diffuser/baffle				
			water volume				
			dose rate				
			Met ✔ Not Met X				
	Measure the area/volume	Candidate to <b>measure</b> the	To include:				<u> </u>
Unit 181	to be treated	area/volume. The Assessor	<ul> <li>accurate measurement of dimensions</li> </ul>				
		may assist under direction of the candidate	<ul> <li>safe procedures</li> </ul>				
4.4		the candidate	Met ✓ Not Met X				
	Calculate the area or	Candidate to <b>calculate</b> the	To include:				$\vdash$
Unit 181	volume to be treated	area/volume of the treatment	<ul> <li>accurate calculations</li> </ul>				
		site					
4.5			Met ✓ Not Met X				
	Calculate the quantities of	Candidate to calculate	To include:				
Unit 181	pesticide and water required, if appropriate	quantities required for both a specified area/volume and full	<ul> <li>amount of pesticide required for specified</li> </ul>	_	_	_	
4.6	required, il appropriate	tank	area/volume				
4.0			<ul> <li>amount of water required for specified area/volume</li> </ul>				
			<ul> <li>amount of pesticide required for full tank</li> </ul>				
			Met ✓ Not Met X				
Unit 181	Measure the required quantities and add to the	Candidate to <b>measure</b> and <b>add</b> quantities required for	To include:				
01111 101	applicator, or attach	the area/volume specified in	<ul> <li>correct selection and use of PPE/RPE(as required by the product label, COSHH/Risk Assessment)</li> </ul>				
5.1	pesticide container	4.5 or attach pesticide	<ul> <li>suitable site selected</li> </ul>				
		container	<ul> <li>fill following product recommendations and</li> </ul>				
			approved procedures				
			<ul> <li>correct use of water supply</li> </ul>				
			<ul> <li>accurate measurement of pesticide</li> </ul>				
			<ul> <li>accurate measurement of water</li> </ul>				
			avoidance of spillage				
			or				
			attach pesticide container				
			Met ✓ Not Met X				
	Demonstrate safe and	The candidate is required to	To include:				
Unit 181	accurate application	treat the area/volume in 4.5	<ul> <li>treatment area/volume clearly identified</li> </ul>				
5.2	procedures	demonstrating safe and accurate application	walking speed maintained				
J.2		procedures	accurate switch on/off points				
			accurate matching of bouts				
			<ul> <li>obstacles dealt with correctly (if applicable)</li> </ul>				
			walking direction				
			<ul> <li>avoidance of off target contamination</li> </ul>				
			awareness of changing weather conditions and				
			appropriate action taken (if applicable)				
	1		Met ✓ Not Met X				

Unit 191       Carry out all advances marked by a carry out all advances and advances marked by a carry out all advances and advances of overdos advances overdos advances	CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/ A	AND B	IDA <sup>.</sup> C	TE D
Unit 181       Complete a treatment       Condicate is equired to complete a treatment record must be:       -	Unit 181	Carry out all activities protecting human health	Note to the Assessor: Assessor to be <b>satisfied</b> that the candidate has carried out	To include: • prevention of personal injury and contamination				
Unit 181       Complete a treatment record must be contamination       Image: contaminati	5.3		human health and the	required by the product label and/or COSHH/Risk Assessment)				
unit 181       Complete a treatment       Candidate is required to complete a treatment record			onvironmont					
Unit 181       Complete a treatment complete a treatment record overdosing croptargetplant material material       Image: complete a treatment record must be: social complete find a treatment record must be: social complete a treatment r								
Unit 181       Complete a treatment record must be:								
Unit 181       Complete a treatment record       complete a tr								
unit 181       record       complete a treatment record       - accurate       Image: Complete a treatment record				Met ✓ Not Met X				
5.4       Note to the Assessor in the treatment record must be assessor if necessary)       Met < Not Met X	Unit 181							
unit 181 naterials       surplus pesticide and materials       method of dealing with surplus concentrate pesticide materials       - return to temporary mobile store       -       -       -         6.1       Candidate to state two methods of dealing with packaging       -	5.4		treatment record must be approved by the Assessor (or supplied by the Assessor if	<b>.</b> ,				
6.1       surplus concentrate pesticide       Imaterials       Imaterials       Imaterials         6.1       candidate to state two materials       Candidate to state two materials       Containers: Imaterials       Imaterials       Imaterials         6.1       Candidate to state two materials       Candidate to state two materials       Imaterials       Imaterials       Imaterials         6.1       Candidate to state two materials       Candidate to state two materials       Imaterials       Imaterials       Imaterials         6.1       Candidate to state two materials       Candidate to state two methods of dealing with surplus dilute pesticide       Imaterials       Imaterials       Imaterials       Imaterials       Imaterials         0       Candidate to explain two methods of dealing with surplus dilute pesticide       Imaterials	Unit 181			-				
unit 181       6.2       Explain how to clean and the applicator       Candidate to describe thre applicator       Image: Consider prior to storing in a sprior ale site       Image: Consider prior to storing in a sprior ale site       Image: Consider prior to storing in a sprior ale site       Image: Consider prior to storing in a sprior ale site       Image: Consider prior to storing in a sprior ale site       Image: Consider prior to store in a secure storage until disposal       Image: Consider prior to store in a secure storage until disposal       Image: Consider prior to store in a secure storage until disposal       Image: Consider prior to store in a secure storage until disposal       Image: Consider prior to store grin prior to store in a secure storage until disposal       Image: Consider prior to store grin prior to store in a secure storage until disposal       Image: Consider prior to store grin prior to store grin prior to store in a secure area       Image: Consider prior to store grin prior to store grin prior to store in a secure area       Image: Consider prior to store area       Image: Consider prior to store grin prior to store grin prior to store in a secure area       Image: Consider prior to store area       Image: Consider prior to store grin prior to store grin prior to store grin prior to store in a secure area       Image: Consider prior to store area       Image: Consider prior to store grin prior to store in a secure area       Image: Consider prior to store grin prior to store in a secure area       Image: Consider prior to store grin prior to store in the store under core area       Image: Consider prior to store information date		dispose of waste						
unit 181       Explain how to clean and decontaminate the applicator       Candidate to escribe three				Containers:				
unit 181       Explain how to clean and decontaminate the applicator       Candidate to state four factors to consider when cleaning should take place       May include: <ul> <li>a line bio bed)</li> <li>b line should take place</li> <li>c line should take place</li></ul>								
Unit 181       Candidate to explain how to clean and decontaminating the applicator       Candidate to explain how applicator       Image: I								
Unit 181       Candidate to explain two methods of dealing with surplus dilute pesticide       Candidate to explain two methods of dealing with surplus dilute pesticide       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • back on to site as long as it is below the maximum does rate.       • other does disposal ontractor       • other does disposal ontracto								
Unit 181       Candidate to explain two methods of dealing with surplus dilute pesticide <ul> <li>back on to site as long as it is below the maximum methods of dealing with surplus dilute pesticide</li> <li>back on to site as long as it is below the maximum material</li> <li>treated by specialist treatment facility on site (e.g., a lined bio bed)</li> <li>collected by a licensed waste disposal contractor</li> <li>i</li> <li>i</li></ul>								
unit 181       Candidate to explain two methods of dealing with surplus dilute pesticide       • collected by a licensed waste disposal contractor       • · · · · · · · · · · · · · · · · · · ·				thoroughly emptied				
unit 181       Candidate to explain two methods of dealing with surplus dilute pesticide <ul> <li>use on another approved crop/target/plant material</li> <li>use on another approved crop/target/plant material</li> <li>treated by specialist treatment facility on site (e.g. a lined bio bed)</li> <li>collected by a licensed waste disposal contractor</li> <li>internal and external surfaces</li> <li>intore apapricator is clean and dry</li> <li< td=""><td></td><td></td><td></td><td>- · ·</td><td></td><td></td><td></td><td></td></li<></ul>				- · ·				
unit 181       Explain how to clean and decontaminate the applicator       Candidate to state four factors to consider when cleaning and decontaminating the applicator       May include:       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			Condidate to evaluin two					
Unit 181       Explain how to clean and decontaminate the applicator       Candidate to state four factors to consider when cleaning and decontaminate the applicator       May include:			methods of dealing with	dose rate				
unit 181       Explain how to clean and decontaminate the applicator       Candidate to state four factors to consider when cleaning and decontaminating the applicator       May include:       a gapropriate site				material				
Unit 181       Explain how to clean and decontaminate the applicator       Candidate to state four factors to consider when cleaning and decontaminating the applicator       May include:       Image: Contaminate the applicator       Image: Contaminate the								
Unit 181       Explain how to clean and decontaminate the applicator       Candidate to state four factors to consider when cleaning and decontaminating the applicator       May include:       appropriate site       I </td <td></td> <td></td> <td></td> <td>collected by a licensed waste disposal contractor</td> <td></td> <td></td> <td></td> <td></td>				collected by a licensed waste disposal contractor				
Unit 181 applicator       decontaminate the applicator       factors to consider when cleaning and decontaminating the applicator       i       appropriate site       i <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
6.2       applicator       cleaning and decontaminating the applicator       thorough washing with water and suitable additive if recommended	Unit 181			-				
applicator       applicator       □	6.2	applicator		<ul> <li>thorough washing with water and suitable additive</li> </ul>				
Unit 181       Describe the storage requirements for the applicator       Candidate to describe three factors to consider prior to storing the applicator       may include:       n <t< td=""><td>0.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	0.2							
Unit 181       Describe the storage requirements for the applicator       Candidate to describe three factors to consider prior to storing the applicator       may include:								
Unit 181       Describe the storage requirements for the applicator       Candidate to describe three factors to consider prior to storing the applicator       may include:       may include:       nmay include:       nma								
Unit 181       Describe the storage requirements for the applicator       Candidate to describe three factors to consider prior to storing the applicator       may include:				thorough flushing of systems				
Unit 181       Describe the storage requirements for the applicator       Candidate to describe three factors to consider prior to storing the applicator       may include:       net < Not Met X       net <								
Unit 181       Describe the storage requirements for the applicator       Candidate to describe three factors to consider prior to storing the applicator       may include:				safe procedures followed				
Unit 181       requirements for the applicator       factors to consider prior to storing the applicator       ensure the applicator is clean and dry       I       I       I         6.3       - replace any worn or damaged parts       I								
6.3 • inspect for wear and damage • • • inspect for wear and damage • • • • • • • • • • • • • • • • • • •	Unit 181	requirements for the	factors to consider prior to					
<ul> <li>replace any worn or damaged parts</li> <li>ensure system is drained and any valves left in appropriate positions</li> <li>frost protection measures implemented</li> <li>lubricate as required</li> <li>store undercover and out of direct sunlight</li> <li>store in a secure area</li> </ul>	6.3	αρριισαιοι						
appropriate positions       Image: Construction measures implemented         frost protection measures implemented       Image: Construction measures implemented         lubricate as required       Image: Construction measures implemented         store undercover and out of direct sunlight       Image: Construction measures implemented         store in a secure area       Image: Construction measures implemented								
<ul> <li>Iubricate as required</li> <li>store undercover and out of direct sunlight</li> <li>store in a secure area</li> </ul>				appropriate positions				
store undercover and out of direct sunlight     store in a secure area								
store in a secure area								
				Met ✓ Not Met X				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA	ΓЕ
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Explain the procedures to Candidate to explain three May include:						
Unit 181	Unit 181make the area safe for re- entryrelevant post application procedures6.4	relevant post application	<ul> <li>ventilate area prior to re-entry</li> </ul>				
6.4		re-entry interval					
0.4			removal of warning signs				
			<ul> <li>decontamination of non-target areas</li> </ul>				
			• withholding period before sale or consumption				
			<ul> <li>manufacturers procedures followed</li> </ul>				
			Met ✓ Not Met X				

### Unit 182 – Applying Pesticide Mists, less than 100 Microns VMD Outdoors (PA9B)

Candidate A	Name:	Date:	Start Time:	Duration:
Candidate B	Name:	Date:	Start Time:	Duration:
Candidate C	Name:	Date:	Start Time:	Duration:
Candidate D	Name:	Date:	Start Time:	Duration:

NUMBER         CRITERIA         GUIDANCE         ACTIVITIES         A         B         C           Unit 12 requirements relating to applying pesticides using outdoors         requirements relating to applying pesticides using outdoors         Image: Comply with The requirements requirements         Image: Comply with The requirements         Image: Comply with The re										
Unit 182 1.1       Describe two operator's applying pecticides using outdoors       May include: 	CRITERIA	ASSESSMENT	ASSESSOR	A			AND	IDA	TE	
Unit 182       requirements relating to misting equipment outdoors       obligations in terms of legal requirements       -       a       a       a       a         1.1       a	NUMBER				ACTIVITIES	Α	В	С	D	
uitcoors       when operating or transporting on the public highway       -<		requirements relating to applying pesticides using misting equipment	obligations in terms of legal	all required gua     complies with lead	egal requirements					
Unit 182       Describe how to apply pesticides safely using misting equipment for using for using mis		outdoors		when operating highway	g or transporting on the public					
Unit 182       Describe how to apply peticides safely using miting equipment in terms of using mitting equipment outdoors       May include: <ul> <li>comply with relevant Pesticide Codes of Practice</li> <li>a dopt industry best practice</li> <li>be aware of any safety implications imposed by Risk/COSHH Assessment and comply with the requirements.</li> <li>be aware of any safety implications imposed by Risk/COSHH Assessment and comply with the requirements.</li> <li>be aware of the increased risk of applying pesticides as a mist in an outdoor environment</li> <li>comply with relevant Pesticide Safety mitoriants.</li> <li>be aware of the increased risk of applying pesticides as a mist in an outdoor environment</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for the application site</li> <li>didentify risks to the environment for minimise the risks identified</li> <li>didentify risks to the environment for minimise the risks identified</li> <li>dinor</li> <li>di</li></ul>				(Sustainable U	se) Regulations 2012					
Unit 182       Describe how to apply pesticides safely using dupment following industry best practice       May include:       comply with relevant Pesticide Codes of Practice       Image: Complexity of the complex										
Unit 182       pesticides safely using misting equipment following industry best practice       safety requirements in terms outdoors       comply with relevant Pesticide Codes of Practice   <td< td=""><td></td><td></td><td></td><td></td><td>Met√ Not Me</td><td>et X</td><td></td><td></td><td></td></td<>					Met√ Not Me	et X				
1.2       misting equipment following industry best practice       of using misting equipment outdoors       of using misting equipment outdoors       of using misting misting equipment outdoors	Umit 400									
1.2       following industry best practice       outdoors       adopt industry best practice         1.2       following industry best practice       baware of any safety implications imposed by Risk/COSHH Assessment and comply with the requirements       b         0       dentify risks to the environment       c       diantify risks to the environment for the application site       diantify risks to the environment for the application site       water courses       diantify risks to the environment for the application site       diantify risks to the environment for the application site       diantify risks to the environment for the application site       diantify risks to the environment for the application site       diantify risks to the environment for the application site       diantify risks to the environment for the application site       diantify risks to the environment for the application site       diantify risks to the environment for the application site       diantify risks to the environment       diantify	Unit 182	misting equipment of using misting equipment								
Line of the sequence of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticides as a mist in an outdoor environment       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: convert of the increased risk of applying pesticide       Image: conv	1.2		<b>o o i</b> i	a a optimation y	•					
unit 182       Identify risks to the environment       Image: Candidate to identify all relevant risks to the environment for the application site       May include:       Image: Candidate to identify all relevant risks to the environment for the application site         2.1       May include:       Image: Candidate to identify all relevant risks to the environment for the application site       May include:       Image: Candidate to identify all relevant risks to the environment for the application site       May include:       Image: Candidate to identify all relevant risks to the environment for the application site       Image: Candidate to identify all relevant risks to the environment for the application site       May include:       Image: Candidate to identify all relevant risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       May include:       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks id		practice		Risk/COSHH A		e				
Unit 182       Identify risks to the environment       Candidate to identify all relevant risks to the environment for the application site       May include: • water courses • drains • boreholes       • • • • • • • • • • • • • • • • • • •						t 🗆				
Unit 182       environment       relevant risks to the environment for the application site       • water courses       • or drains					Met ✓ Not Me	et X				
2.1       environment for the application site       environment for the application site       drains		Identify risks to the	Candidate to identify all	May include:						
2.1       application site       • drains       • drains       • or drains <td< td=""><td>Unit 182</td><td>environment</td><td></td><td>water courses</td><td></td><td></td><td></td><td></td><td></td></td<>	Unit 182	environment		water courses						
unit 182       Explain how to minimise risks to the environment       Candidate to explain how to 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       Candidate to explain how to minimise the risks identified in 2.1       Explain how to minimise risks identified in 2.1       Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points: to use of an appropriate pesticide to careful timing of application to rinform neighbours before application       I <td>21</td> <td></td> <td></td> <td>drains</td> <td></td> <td></td> <td></td> <td></td> <td></td>	21			drains						
unit 182       Explain how to minimise       Candidate to explain how to minimise the risks identified in 2.1       Explain how to minimise the risks identified in 2.1       Explanation to include the following points:       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	2.1			<ul> <li>boreholes</li> </ul>						
unit 182       Explain how to 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:       I <td< td=""><td></td><td></td><td></td><td>wildlife</td><td></td><td></td><td></td><td></td><td></td></td<>				wildlife						
unit 182       Explain how to minimise risks to the environment       Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points: 				u u u u u u u u u u u u u u u u u u u						
Unit 182       Explain how to minimise risks to the environment       Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points:       Image: Candidate to explain how to minimise the risks identified in 2.1         2.2       Candidate to check and comment on wind speed and direction       Image: Candidate to check and comment on wind speed and direction       Image: Candidate to state the reason for minimising off target application       Image: Candidate to state the reason for minimising off target application       Image: Candidate to state the reason for minimising off target application       Image: Candidate to state the reason for minimising off target application       Image: Candidate to state the environment       Image:				•	/areas					
Unit 182       Explain how to minimise risks to the environment       Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points:       Image: Candidate to explain how to minimise the risks identified in 2.1         2.2       Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points:       Image: Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points:       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points:       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimise the risks identified in 2.1       Image: Candidate to explain how to minimisexplain how to minimise the risks identified in 2.1 <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td>				0						
Unit 182       Explain how to minimise risks to the environment       Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points: • use of an appropriate pesticide       I <thi< th="">       I<!--</td--><td></td><td></td><td></td><td>. ,</td><td></td><td></td><td></td><td></td><td></td></thi<>				. ,						
Unit 182       Explain how to minimise risks to the environment       Candidate to explain how to minimise the risks identified in 2.1       Explanation to include the following points:       I<				<ul> <li>other risks specified</li> </ul>	cific to the site					
Unit 182       risks to the environment       minimise the risks identified in 2.1       use of an appropriate pesticide       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					Met ✓ Not Me	et X				
2.2       in 2.1       in 2.1       is due of an appropriate pesticide       in 2.1         in 2.1       careful timing of application       iming of application       iming of application         in 2.1       careful timing of application       iming of application       iming of application         in 2.1       careful timing of application       iming of application       iming of application       iming of application         inform neighbours before application       iming of an emometer at suitable height or visible signs       iming of application       iming of application         Candidate to check and comment on wind speed and direction       iming of an emometer at suitable height or visible signs       iming of application         Candidate to state the reason for minimising off target application       iming of application       iming of application				Explanation to inclue	de the following points:					
2.2       • careful timing of application       • • • careful timing of application         • check and maintain application rate       • • • • • • • • • • • • • • • • • • •	Unit 182	risks to the environment		<ul> <li>use of an approx</li> </ul>	opriate pesticide					
<ul> <li>check and maintain application rate</li> <li>display warning signs</li> <li>inform neighbours before application</li> <li>inform neighbours before application</li> <li>use of anemometer at suitable height or visible signs</li> <li>wind direction</li> <li>wind direction</li> <li>avoidance of contamination to people and the environment</li> </ul>	22			careful timing c	of application					
<ul> <li>inform neighbours before application</li> <li>inform neighbours before application</li> <li>inform neighbours before application</li> <li>inform neighbours before application</li> <li>isigns</li> <li>isigns</li></ul>	2.2			<ul> <li>check and main</li> </ul>	ntain application rate					
Candidate to check and comment on wind speed and direction Candidate to state the reason for minimising off target application Candidate to state the				<ul> <li>display warning</li> </ul>	g signs					
comment on wind speed and direction       signs       I <td></td> <td></td> <td></td> <td><ul> <li>inform neighbo</li> </ul></td> <td>ours before application</td> <td></td> <td></td> <td></td> <td></td>				<ul> <li>inform neighbo</li> </ul>	ours before application					
direction       • wind direction       □ </td <td></td> <td></td> <td></td> <td></td> <td>neter at suitable height or visible</td> <td></td> <td></td> <td></td> <td></td>					neter at suitable height or visible					
reason for minimising off environment			direction	U U						
			reason for minimising off		ontamination to people and the					
			target application		Met ✓ Not Me	et X				

	ASSESSMENT	ASSESSOR	ASSESSMENT			1	1
NUMBER	CRITERIA Read product information	GUIDANCE The candidate is required to	ACTIVITIES The following to be provided if applicable:	Α	В	С	D
Unit 182	Read product mormation	read and interpret the	The following to be provided if applicable.				
	Interpret product	information on a product label	product name				
3.1	information	and provide <b>relevant</b> information as requested by	<ul> <li>active substance(s) (ingredient(s))</li> </ul>				
Unit 182		the Assessor	Important information:				
3.2		Note to the Assessor: A	field of use				
0.2		product label is required. It is	crop/target				
		expected that the candidate will provide the product label	maximum individual dose				
			maximum total dose				E
		The label provided must be for a currently approved	maximum number of treatments				C
		product and appropriate to the candidates normal work	<ul> <li>specific product precautions/warnings</li> </ul>				
		situation	<ul> <li>reduced volume applications (if applicable)</li> </ul>				
			operator protection				[
		Note to the Candidate	environmental protection				[
		(Assessor also to note): It is acceptable for key information on the label to be	restrictions on use				[
		highlighted for use during the	Target specific information:				
		assessment	crop/target				
			dose rate     water volume				[
							[
		Mixing and spraying: • filling				[	
		<ul> <li>recommended nozzle/diffuser</li> </ul>					
		<ul> <li>recommended pressure</li> </ul>				(	
			<ul> <li>additional label information</li> </ul>				[
			compatibility				
			Met ✔ Not Met X				
Unit 182	Carry out pre use checks to the applicator	Candidate to <b>carry out all</b> pre-use checks <b>relevant</b> to the applicator being used for	May include: applicator components to be inspected for serviceability and contamination that may include:				
4.1		the assessment	• guards				
			• tank				
			• lid				[
			hoses				[
			connections				[
			• seals				[
			on/off control				[
			delivery tubes				
			straps				[
			<ul> <li>pump (visual assessment only)</li> </ul>				[
			power source				
			anti-vibration mounts				
		Candidate to <b>part fill</b> the <b>applicator</b> and <b>check</b> for	To include:				
		satisfactory operation	applicator checked for leaks				[
			<ul> <li>any problems identified to be rectified if within operators level of responsibility and ability</li> </ul>				[
			<ul> <li>condition confirmed as suitable for operation</li> </ul>				
			Met ✓ Not Met X				F
	Adjust settings appropriate	Candidate to <b>adjust</b> settings	May include:				ľ
	to the application	appropriate to the application	engine settings				
Unit 182		roquiromonto					
	requirements	requirements	appropriate nozzle/diffuser/baffle				[
Unit 182 <b>4.2</b>		requirements	<ul><li>appropriate nozzle/diffuser/baffle</li><li>flow rate setting</li></ul>				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	С	AND	DIDA.	TE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 182	Calibrate the applicator and record relevant data	The candidate is required to calibrate the applicator and	To include: • safe procedure				
		record <b>relevant</b> data	<ul> <li>safe procedure</li> <li>accurate measurement</li> </ul>				
4.3		Note to the Assessment Apy	accurate measurement     accurate result				
		Note to the Assessor: Any method of calibration may be used providing it is capable of allowing for safe working practice and accurate placement of the pesticide					
		State three pieces of	May include:				
		calibration data that should be recorded	applicator used				
		berecorded	flow rate setting				
			<ul> <li>walking speed/application time</li> </ul>				
			nozzle/diffuser/baffle				
			water volume				
			dose rate				
			Met ✔ Not Met X				
Unit 182	Measure the area/volume to be treated	Candidate to <b>measure</b> the area/volume. The Assessor	To include:				
01111 102		may assist under direction of	accurate measurement of dimensions				
4.4		the candidate	safe procedures				
			Met ✓ Not Met X				
Unit 182	Calculate the area or volume to be treated	Candidate to <b>calculate</b> the area/volume of the treatment	To include:				
01111 102	volume to be treated	site	accurate calculations				
4.5			Met ✓ Not Met X				
11	Calculate the quantities of	Candidate to calculate	To include:				
Unit 182 <b>4.6</b>	pesticide and water required, if appropriate	quantities required for both a specified area/volume and full tank	amount of pesticide required for specified     area/volume				
4.0			<ul> <li>amount of water required for specified area/volume</li> </ul>				
			<ul> <li>amount of pesticide required for full tank</li> </ul>				
			Met ✓ Not Met X				
Unit 182 <b>5.1</b>	Measure the required quantities and add to the applicator, or attach pesticide container	Candidate to <b>measure</b> and <b>add</b> quantities required for the area/volume specified in <b>4.5</b> or attach pesticide	<ul> <li>To include:</li> <li>correct selection and use of PPE/RPE(as required by the product label, COSHH/Risk Assessment)</li> <li>suitable site selected</li> </ul>				
		container	<ul> <li>fill following product recommendations and</li> </ul>				
			approved procedures				
			correct use of water supply				
			accurate measurement of pesticide				
			accurate measurement of water				
			avoidance of spillage     or				
			attach pesticide container				
			Met ✓ Not Met X				
	Demonstrate safe and	The candidate is required to	To include:				-
Unit 182	accurate application	treat the area/volume in 4.5	<ul> <li>treatment area/volume clearly identified</li> </ul>				
5.2	procedures	demonstrating safe and accurate application	walking speed maintained				
		procedures	accurate switch on/off points				
			accurate matching of bouts				
			obstacles dealt with correctly (if applicable)				
			walking direction				
			<ul> <li>avoidance of off target contamination</li> <li>awareness of changing weather conditions and appropriate action taken (if applicable)</li> </ul>				
			Met ✓ Not Met X				

NUMBER Unit 182 5.3	CRITERIA Carry out all activities protecting human health and the environment	GUIDANCE Note to the Assessor: Assessor to be satisfied that the candidate has carried out	ACTIVITIES To include:  prevention of personal injury and contamination	A	В	C	D
	protecting human health	Assessor to be satisfied that	• prevention of personal injury and contamination	1			1
		all activities protecting human health and the	through correct selection and use of PPE/RPE (as required by the product label and/or COSHH/Risk Assessment)				
		environment	<ul> <li>prevention of public/bystander contamination</li> <li>safe filling procedure</li> </ul>				
			avoidance of off target contamination				
			avoidance of overdosing crop/target/plant material     Met ✓ Not Met X				
	Complete a treatment	Candidate is required to	Completion of the treatment record must be:				$\square$
Unit 182	record	complete a treatment record	<ul> <li>accurate</li> <li>legible (if handwritten)</li> </ul>				
5.4		Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	Met ✓ Not Met X				
Unit 182 6.1	Explain how to manage surplus pesticide and dispose of waste materials	Candidate to <b>state one</b> method of dealing with surplus concentrate pesticide	May include: • return to temporary mobile store • return to fixed store				
		Candidate to <b>state two</b> methods of dealing with waste containers and	Containers: • triple rinsed • secure storage until disposal				
		packaging	<ul> <li>return to supplier</li> <li>collected by a licensed waste disposal contractor</li> </ul>				
			<ul> <li>Packaging:</li> <li>thoroughly emptied</li> <li>secure storage until disposal</li> <li>collected by a licensed waste disposal contractor</li> </ul>				
		Candidate to <b>explain two</b> methods of dealing with	<ul> <li>back on to site as long as it is below the maximum dose rate</li> </ul>				
		surplus dilute pesticide	use on another approved crop/target/plant     material				
			<ul> <li>treated by specialist treatment facility on site (e.g. a lined bio bed)</li> <li>collected by a licensed waste disposal contractor</li> </ul>				
			Met ✓ Not Met X				
Unit 182	Explain how to clean and decontaminate the	Candidate to <b>state four</b> factors to consider when	May include: • appropriate site				
6.2	applicator	cleaning and decontaminating the applicator	• thorough washing with water and suitable additive if recommended				
			<ul> <li>internal and external surfaces</li> <li>safe disposal of tank washings by approved</li> </ul>				
			<ul><li>methods</li><li>thorough flushing of systems</li></ul>				
			<ul> <li>when cleaning should take place</li> <li>safe procedures followed</li> </ul>				
			Met ✔ Not Met X				
Unit 182	Describe the storage requirements for the	Candidate to <b>describe three</b> factors to consider prior to	<ul><li>may include:</li><li>ensure the applicator is clean and dry</li></ul>				
6.3	applicator	storing the applicator	inspect for wear and damage				
			<ul> <li>replace any worn or damaged parts</li> <li>ensure system is drained and any valves left in appropriate positions</li> </ul>				
	1		frost protection measures implemented				
			<ul> <li>Iubricate as required</li> </ul>				
			<ul> <li>lubricate as required</li> <li>store undercover and out of direct sunlight</li> <li>store in a secure area</li> </ul>				

# Unit 183 – Applying Pesticide Fogs, less than 100 Microns VMD Indoors (PA9C)

Candidate A	Name:	Date:	Start Time:	Duration:
Candidate B	Name:	Date:	Start Time:	Duration:
Candidate C	Name:	Date:	Start Time:	Duration:
Candidate D	Name:	Date:	Start Time:	Duration:

	ndidate D Name.									
CRITERIA	ASSESSMENT	ASSESSOR	Δ	ASSESSMENT	C			TE		
NUMBER	CRITERIA	GUIDANCE		ACTIVITIES	Α	В	С	D		
Unit 183 1.1	Describe the legal requirements relating to applying pesticides using fogging equipment indoors	<b>Describe two</b> operator's obligations in terms of legal requirements	<ul><li>complies with le</li><li>comply with all</li></ul>	ards are in place and equipmer egal requirements relevant road traffic regulations						
			<ul> <li>highway</li> <li>comply with Th</li> </ul>	g or transporting on the public e Plant Protection Products						
				se) Regulations 2012 ust hold the appropriate						
			certification for	the equipment they are using Met✓ Not Met						
Unit 183 1.2	Describe how to apply pesticides safely using fogging equipment following industry best practice	<b>Describe three</b> operator safety requirements in terms of using fogging equipment indoors	<ul><li>adopt industry l</li><li>be aware of any</li></ul>	y safety implications imposed b	by 🗌					
			requirements	Assessment and comply with th	e 🗌					
			pesticides in a	e increased risk of applying confined area potential fire hazards						
			• awareness of p	Met ✓ Not M	et X					
	Identify risks to the	Candidate to identify all	May include:				+			
Unit 183	environment	relevant risks to the	<ul> <li>water courses</li> </ul>							
		environment for the	drains							
2.1		application site	• boreholes							
			• wildlife							
			<ul> <li>non-targets</li> </ul>							
			<ul> <li>sensitive crops,</li> </ul>	/areas						
			<ul> <li>housing</li> </ul>							
			public/bystande	ers/co-workers						
			other risks spec	cific to the site						
				Met ✓ Not M	et X					
	Explain how to minimise	Candidate to explain how to	Explanation to includ	de the following points:						
Unit 183	risks to the environment	minimise the risks identified in <b>2.1</b>		opriate pesticide						
2.2		111 2.1	careful timing o	of application						
2.2			check and main	ntain application rate						
			<ul> <li>identify safe ex</li> </ul>	it route						
			<ul> <li>close ventilation</li> </ul>	,						
			<ul> <li>seal the buildin</li> </ul>	g						
			<ul> <li>display warning</li> </ul>							
			<ul> <li>integrity of the s</li> <li>inform neighbor</li> </ul>	structure urs before application						
		Candidate to <b>check</b> and <b>comment</b> on wind speed and direction	signs	neter at suitable height or visibl						
			<ul><li>wind direction</li><li>effect of wind s</li></ul>	uction						
		Candidate to <b>state</b> the reason for minimising off target application	• avoidance of co environment	ontamination to people and the						
		- · ·		Met ✓ Not Me	et X					

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C A	AND B		TE D
NOWIDER	Read product information	The candidate is required to	The following to be provided if applicable:	A	Б	C	
Unit 183 3.1	Interpret product information	read and interpret the information on a product label and provide relevant	product name				
-		information as requested by	<ul> <li>active substance(s) (ingredient(s))</li> </ul>				
Unit 183		the Assessor	Important information:				
3.2		Note to the Assessor: A product label is required. It is	• field of use				
		expected that the candidate	<ul> <li>crop/target</li> <li>maximum individual dose</li> </ul>				
		will provide the product label. The label provided must be	<ul> <li>maximum total dose</li> </ul>				
		for a currently approved product and appropriate to	maximum number of treatments				
		the candidates normal work situation	<ul> <li>specific product precautions/warnings</li> </ul>				
		Situation	<ul> <li>reduced volume applications (if applicable)</li> </ul>				
		Note to the Candidate	operator protection				
		(Assessor also to note): It is acceptable for key	environmental protection     restrictions on use				
		information on the label to be					
		highlighted for use during the assessment	Target specific information:				
			crop/target				
			dose rate     water volume				
			timing				
			• uning				
			additional label information				
			compatibility				
			Met ✓ Not Met X				
Unit 183 4.1	Carry out pre use checks to the applicator	Candidate to carry out all pre-use checks relevant to the applicator being used for the assessment	May include: applicator components to be inspected for serviceability and contamination that may include: • read instructions				
			<ul> <li>identify components including safety devices</li> </ul>				
			condition of power source				
			re-fuelling procedure				
			<ul> <li>security of packaging/canisters</li> </ul>				
			<ul><li>contamination safety status</li><li>remedial action if appropriate</li></ul>				
			To include: • applicator checked for leaks				
			<ul> <li>any problems identified to be rectified if within</li> </ul>				
			operators level of responsibility and ability				
			<ul> <li>condition confirmed as suitable for operation</li> </ul>				
			Met ✓ Not Met X				
	Adjust settings appropriate	Candidate to adjust settings	May include:				
Unit 183	to the application requirements	appropriate to the application requirements	engine/power source settings				
4.2	1	· · · · · · · · · · · · · · · · · · ·	flow rate setting				
			Met ✓ Not Met X				
11:1:1:102	Calibrate the applicator	The candidate is required to	To include:				
Unit 183	and record relevant data	calibrate the applicator and record relevant data	safe procedure				
4.3			accurate measurement				
		Note to the Assessor: Any method of calibration may be used providing it is capable of allowing for safe working practice and accurate placement of the pesticide	accurate result				
		State three pieces of	May include:				
		calibration data that should	applicator used				
		be recorded	flow rate setting				
			walking speed/application time				
			water volume				
			dose rate				
			Met ✓ Not Met X	$\square$			$\square$

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CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	-			1
NUMBER	CRITERIA Measure the area/volume	GUIDANCE Candidate to measure/weigh	ACTIVITIES	Α	В	С	D
Unit 183	to be treated	the area/volume/weight. The					
		Assessor may assist under					
4.4		direction of the candidate	safe procedures				
			Met ✓ Not Met X				
	Calculate the weight, area	Candidate to calculate the	To include:		l l	l l	
Unit 183	or volume to be treated	weight, area/volume of the	accurate calculations				
		treatment site	Met ✓ Not Met X				
4.5							
Unit 183	Calculate the quantities of pesticide and water	Candidate to <b>calculate</b>	To include:				
01111 105	required, if appropriate	quantities required for both a specified weight/area/volume	<ul> <li>amount of pesticide required for specified</li> </ul>				
4.6		and full tank	weight/area/volume				
			<ul> <li>amount of water required for specified weight/area/volume</li> </ul>				
			<ul> <li>amount of pesticide required for full tank</li> </ul>				
			Met ✓ Not Met X				
	Measure the required	Candidate to measure and	To include:				
Unit 183	quantities and add to the	add quantities required for	• correct selection and use of PPE/RPE(as required				
E 4	applicator, or attach pesticide container	the weight/area/volume specified in <b>4.5</b> or attach	by the product label, COSHH/Risk Assessment)				
5.1	pesticide container	pesticide container	suitable site selected				
		1.	<ul> <li>fill following product recommendations and</li> </ul>				
			approved procedures				
			correct use of water supply				
			<ul> <li>accurate measurement of pesticide</li> </ul>				
			<ul> <li>accurate measurement of water</li> </ul>				
			avoidance of spillage				
			or				
			attach pesticide container				
			Met ✓ Not Met X				
	Demonstrate safe and	The candidate is required to	To include:		<u> </u>	_	F
Unit 183	accurate application	treat the area/volume/weight	<ul> <li>treatment area/volume/weight clearly identified</li> </ul>				
	procedures	in 4.5 demonstrating safe	<ul> <li>walking speed maintained</li> </ul>				
5.2		and accurate application procedures	<ul> <li>accurate switch on/off points</li> </ul>				
		procedures	<ul> <li>accurate matching of bouts</li> </ul>				
			<ul> <li>obstacles dealt with correctly (if applicable)</li> </ul>				
			<ul> <li>walking direction</li> </ul>				
			<ul> <li>avoidance of off target contamination</li> </ul>				
			<ul> <li>avoidance of on target containination</li> <li>awareness of changing weather conditions and</li> </ul>				
			appropriate action taken (if applicable)				
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:				
Unit 183	protecting human health and the environment	Assessor to be <b>satisfied</b> that the candidate has carried out	<ul> <li>prevention of personal injury and contamination</li> </ul>				
5.3	and the environment	all activities protecting	through correct selection and use of PPE/RPE (as required by the product label and/or COSHH/Risk				
0.0		human health and the	Assessment)				
		environment	<ul> <li>safe exit route identified and used</li> </ul>				
			<ul> <li>prevention of public / bystander contamination</li> </ul>				
			<ul> <li>safe filling procedure</li> </ul>				
			<ul> <li>avoidance of off target contamination</li> </ul>				
			<ul> <li>avoidance of overdosing crop/target/plant material</li> </ul>				
			Met ✓ Not Met X				
	Complete a treatment	Candidate is required to	Completion of the treatment record must be:	1			
Unit 183	record	complete a treatment record	accurate				
<b>F</b> 4		Note to the Assessor: The	legible (if handwritten)				
5.4		treatment record must be	<b>.</b> ,				
		approved by the Assessor (or	Met ✓ Not Met X				
		supplied by the Assessor if		1			
	1	necessary)		1	I I	I.	1

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	1	IDA	1
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
11	Explain how to manage	Candidate to state one	May include:				
Unit 183	surplus pesticide and dispose of waste materials	method of dealing with surplus concentrate pesticide	<ul> <li>return to temporary mobile store</li> </ul>				
6.1		sulpius concentrate pesticide	return to fixed store				
•		Candidate to state two	Containers:				
		methods of dealing with	triple rinsed				
		waste containers and	<ul> <li>secure storage until disposal</li> </ul>				
		packaging	<ul> <li>return to supplier</li> </ul>				
			<ul> <li>collected by licensed waste disposal contractor</li> </ul>				
			Collected by licensed waste disposal contractor				
			Packaging:				
			<ul> <li>thoroughly emptied</li> </ul>				E
			<ul> <li>secure storage until disposal</li> </ul>				
			collected by licensed waste disposal contractor				
		Candidate to <b>explain two</b>	• back on to site as long as it is below the maximum	_	_	_	
		methods of dealing with surplus dilute pesticide	dose rate				
			<ul> <li>use on another approved crop/target/plant material</li> </ul>				
			<ul> <li>treated by specialist treatment facility on site (e.g.</li> </ul>				
			a lined bio bed)				
			<ul> <li>collected by a licensed waste disposal contractor</li> </ul>				
			Met ✓ Not Met X				
	Explain how to clean and	Candidate to state four	May include:				
Unit 183	decontaminate the applicator	factors to consider when cleaning and	appropriate site				E
6.2	applicator	decontaminating the	• thorough washing with water and suitable additive				
0.2		applicator	if recommended				
			<ul> <li>internal and external surfaces</li> </ul>				
			<ul> <li>safe disposal of tank washings by approved methods</li> </ul>			_	_
			thorough flushing of systems				
			when cleaning should take place				
			safe procedures followed				
			Met ✓ Not Met X				
	Describe the storage	Candidate to describe three	may include:				
Unit 183	requirements for the	factors to consider prior to	<ul> <li>ensure the applicator is clean and dry</li> </ul>				
	applicator	storing the applicator	<ul> <li>inspect for wear and damage</li> </ul>				
6.3			<ul> <li>replace any worn or damaged parts</li> </ul>				
			<ul> <li>ensure system is drained and any valves left in</li> </ul>				
			appropriate positions				
			<ul> <li>frost protection measures implemented</li> </ul>				
			Iubricate as required				
			<ul> <li>store undercover and out of direct sunlight</li> </ul>				E
			<ul> <li>store in a secure area</li> </ul>				E
			Met ✓ Not Met X				
	<b>F</b> 1 1 4						
Unit 183	Explain the procedures to make the area safe for re-	Candidate to explain three relevant post application	May include:				_
5111 100	entry	procedures	ventilate area prior to re-entry				
6.4	-		re-entry interval				
			removal of warning signs				
			decontamination of non-target areas				[
			withholding period before sale or consumption				[
			<ul> <li>manufacturers procedures followed</li> </ul>				[
			Met ✓ Not Met X				

## Unit 184 – Applying Pesticide Smokes Indoors (PA9D)

Candidate		Name:	ide Smokes Indoo	Date:	•	Start Time:	Dura	atior	ו:		
Candidate	в	Name:		Date:		Start Time:	Dura	atior	ו:		
Candidate	C	Name:		Date:		Start Time:	Dura	atior	ו:		
Candidate	D	Name:		Date:		Start Time:	Dura	atior	ו:		
CRITERIA NUMBER		ASSESSMENT CRITERIA	ASSESSOR GUIDANCE			SSESSMENT ACTIVITIES		C A	AND B	IDA <sup>.</sup> C	TE D
Unit 184 1.1	req app	cribe the legal uirements relating to lying pesticides using okes indoors	Describe two operator's obligations in terms of lega requirements		comply with The (Sustainable Use the operator mus	blies with legal requirements Plant Protection Products e) Regulations 2012 st hold the appropriate he equipment they are using					
					Met√ Not I						
Unit 184 1.2	pes smo	cribe how to apply ticides safely using okes following industry t practice	<b>Describe three</b> operator safety requirements in terr of using smokes indoors		adopt industry b be aware of any Risk/COSHH As	vant Pesticide Codes of Pra est practice safety implications imposed sessment and comply with	l by				
				•	requirements be aware of the pesticides in a c	increased risk of applying onfined area Met ✔ Not I	Met X				
Unit 184 2.1		ntify risks to the ironment	Candidate to <b>identify all</b> <b>relevant</b> risks to the environment for the application site	• • • • • •	ay include: water courses drains boreholes wildlife non-targets sensitive crops/a housing public/bystander other risks speci	s/co-workers fic to the site Met ✔ Not I	Met X				
Unit 184 2.2		lain how to minimise s to the environment	Candidate to <b>explain</b> how minimise the risks identifie in <b>2.1</b> Candidate to <b>check</b> and <b>comment</b> on wind speed a direction	d •	use of an approp careful timing of check and maint close ventilation seal the building display warning integrity of the st inform neighbou	application ain application rate system signs tructure rs before application eter at suitable height or visi	ble				
			Candidate to <b>state</b> the reason for minimising off target application	•	avoidance of cor environment	ntamination to people and th Met ✔ Not I					

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	-		1	-
NUMBER	CRITERIA Read product information	GUIDANCE The candidate is required to	ACTIVITIES The following to be provided if applicable:	Α	В	С	D
Unit 184	Read product information	read and interpret the	The following to be provided if applicable:				
	Interpret product	information on a product label	product name				
3.1	information	and provide <b>relevant</b> information as requested by	<ul> <li>active substance(s) (ingredient(s))</li> </ul>				
Unit 184		the Assessor					
01111104			Important information:				
3.2		Note to the Assessor: A product label is required. It is	• field of use				
		expected that the candidate	<ul> <li>crop/target</li> <li>maximum individual dose</li> </ul>				
		will provide the product label.	maximum individual dose     maximum total dose				
		The label provided must be for a currently approved	<ul> <li>maximum number of treatments</li> </ul>				
		product and appropriate to					
		the candidates normal work	<ul> <li>specific product precautions/warnings</li> </ul>				
		situation	operator protection				
		Note to the Candidate	environmental protection				
		(Assessor also to note): It is	restrictions on use				
		acceptable for key information on the label to be	Target specific information:				
		highlighted for use during the	<ul> <li>crop/target</li> </ul>				
		assessment	<ul> <li>dose rate</li> </ul>				
			• timing				
			additional label information				
			compatibility				
			Met ✓ Not Met X				
	Calculate volume to be	Candidate to calculate the	accurate calculations				
Unit 184	treated	area or volume of the					
4.1		treatment site	Met ✓ Not Met X				
4.1							
	Calculate the quantity of	Candidate to calculate the	accurate calculations				
Unit 184	smoke generators or	quantities required for the					
4.2	weight of pesticide product required	treatment site	Met ✓ Not Met X				
	Measure out the required	Candidate to <b>measure</b> out	To include:	-	<u> </u>		
Unit 184	quantities and position the	the required quantities and	correct quantities				
- 4	smoke generators or	place the smoke generators	accurate placement				
5.1	pesticide product	or pesticide product according to the label	<ul> <li>following label instructions</li> </ul>				
		instructions and safe practice	<ul> <li>following risk assessment</li> </ul>				
			Met ✓ Not Met X				
	Demonstrate safe and	The candidate is required to	To include:				╞──
Unit 184	accurate operational	simulate treatment of the	appropriate PPE/RPE				
	procedures	area demonstrating safe	<ul> <li>direction of travel</li> </ul>				
5.2		and accurate application procedures	<ul> <li>safe system for the release of the pesticide</li> </ul>				
		1	product				
			safe exit route established				
			Met ✓ Not Met X				
	Carry out all activities	Note to the Assessor:	To include:	1			+
Unit 184	protecting human health	Assessor to be <b>satisfied</b> that	• prevention of personal injury and contamination				
5.3	and the environment	the candidate has carried out all activities protecting	through correct selection and use of PPE/RPE (as				
5.5		human health and the	required by the product label and/or COSHH/Risk Assessment)				
		environment	<ul> <li>safe exit route identified and used</li> </ul>				
			<ul> <li>prevention of public / bystander contamination</li> </ul>				
			<ul> <li>safe filling procedure</li> </ul>				
			<ul> <li>avoidance of off target contamination</li> </ul>				
			• avoidance of overdosing crop/target/plant material				
			Met ✓ Not Met X				
	1						

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA'	TE
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
	Complete a treatment	Candidate is required to	Completion of the treatment record must be:				
Unit 184	record	complete a treatment record	accurate				
5.4		Note to the Assessor: The	<ul> <li>legible (if handwritten)</li> </ul>				
		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 state one	May include:				
Unit 184	surplus pesticide and dispose of waste materials	method of dealing with surplus concentrate pesticide	<ul> <li>return to temporary mobile store</li> </ul>				
6.1	dispose of waste materials	surplus concentrate pesticide	return to fixed store				
		Candidate to <b>state two</b>	Containers:				
		methods of dealing with	<ul> <li>secure storage until disposal</li> </ul>				
		waste containers and	return to supplier				
		packaging	collected by a licensed waste disposal contractor				
			Packaging:				
			<ul> <li>thoroughly emptied</li> </ul>				
			<ul> <li>secure storage until disposal</li> </ul>				
			<ul> <li>collected by a licensed waste disposal contractor</li> </ul>				
			Met ✔ Not Met X				
	Explain the procedures to	Candidate to explain three	May include:				
Unit 184	make the area safe for re- entry	relevant post application procedures	<ul> <li>ventilate area prior to re-entry</li> </ul>				
6.2	onay	procedures	re-entry interval				
•			<ul> <li>removal of warning signs</li> </ul>				
			<ul> <li>decontamination of non-target areas</li> </ul>				
			<ul> <li>withholding period before sale or consumption</li> </ul>				
			<ul> <li>manufacturers procedures followed</li> </ul>				
			Met ✓ Not Met X				

Candidate A	Candidate <b>has met</b> all of the assessment criteria	Tick ✓	The Candidate <b>has not</b> met all of the assessment criteria; ( <i>state reason(s))</i>	Tick ✓
	Signed:	Date:		
Candidate B	Candidate <b>has met</b> all of the assessment criteria	Tick ✓	The Candidate <b>has not</b> met all of the assessment criteria; ( <i>state reason(s))</i>	Tick ✓
	Signed: E	Date:		
Candidate C	Candidate <b>has met</b> all of the assessment criteria	Tick ✓	The Candidate <b>has not</b> met all of the assessment criteria; ( <i>state reason(s))</i>	Tick ✓
	Signed:	Date:		
Candidate D	Candidate <b>has met</b> all of the assessment criteria	Tick ✓	The Candidate <b>has not</b> met all of the assessment criteria; ( <i>state reason(s))</i>	Tick ✓
	Signed:	Date:	·	•

For use by Internal Verifier ONLY if the assessment process was internally verified (Internal Verifier to complete ONE of the boxes below)

I observed an assessment process taking place and I am satisfied that the assessment was conducted in line with the qualification requirements.	Tick ✓
I observed an assessment process taking place. The following were noted as areas of concern.	Tick ✓
Signed: Date:	