Technical Evaluation Record v3 Jan22





QUALIFICATION:	Pesticides – PA	BB Variable Geometry	Qualification Code: Units:				0216-51 (Ind)			
QUALIFICATION.	Boom Sprayer v	vith Air Assistance						122		
Assessor Name:			Technical Verifier Name:			fier				
Assessor No: NEW? DOB:			Technical Verifier No:				lo:			
Assessor Email:			Start Time:							
Invoice To: (Include Centre name if applicable)			End Time:							
CRITERIA: (Please refer to the following pages and current Qualification Guidance)				PERFORMANCE EVALUATION (Circle):				JUSTIFICATION:		
M/C test paper to check PA1 knowledge and specific industry best practice (new assessors only)			1			4	5	5 = Pass w 4 = Pass with 18/20	•	
Knowledge of H&S regulations and industry best practice. Carry out SSRA, COSHH and environmental assessment			1	2	3	4	5			
Knowledge of range of applicators (including pump types, liquid/air flow, controls, components, induction systems)			1	2	3	4	5			
Knowledge of machine preparation and safe driving considerations			1	2	3	4	5			
Knowledge of opera platform and PPE re	equirements and	standards	1	2	3	4	5			
Knowledge of a range of nozzles appropriate to applicator and relevant nozzle chart interpretation			1	2	3	4	5			
Knowledge of nozzle body and fan adjustments, including advantages and possible risks to crop/target			1	2	3	4	5			
Interpretation of tw	o appropriate pi	oduct labels	1	2	3	4	5			
Calibrate the applicator (without use of calibration sheet/aids). Complete calibration test paper			1	2	3	4	5			
Complete calibration test paper			1			4	5	5 = Pass with 100% 4 = Pass with <100% 1 = Fail		
Knowledge of drift reduction methods			1	2	3	4	5			
Measure, mix and fill applicator. Carry out an application.			1	2	3	4	5			
Knowledge of site marking options Knowledge of cleaning/decontamination/disposals.										
Complete a treatme	•	ation, disposais.	1	2	3	4	5			
Assessment techniques (new assessors only)			1	2	3	4	5			
PERFORMANCE EVALUATION COLUMN TOTALS:								= TOTAL SCO	RE:	
Result of Technic Evaluation (tick		(NB. ACHIEVED IN PERFORMANCE EVALUATION COLUMNS 4 & 5 ONLY)								
ACTION PLAN FOR	ASSESSOR:									
Please continue on reverse if necessary										
ASSESSOR COMMENTS:										
								Please continue	on revers	se if necessary
TECHNICAL VERIFIER SIGNATURE:								COST: £200 Half Day	DATE:	
ASSESSOR SIGNATURE:								£300 Full Day		

TECHNICAL EVALUATION RECORD

0216-51 L2 Award in the Safe Application of Pesticides Using Variable Geometry Boom or Broadcast Sprayers (PA3)

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

M/C test paper to check PA1 knowledge and specific industry best practice

☐ Minimum score of 18/20 achieved. (Please note: this paper only needs to be completed by new PA assessors).

Knov ice

Knowle	dge of H&S regulations and industry best practi					
	Key principles and practical relevance:					
	Health and Safety at Work etc. Act 1974 (HASAWA)					
	Management of Health and Safety at Work					
	Regulations 1999 (MHSWR) Provision and Use of Work Equipment					
ш	Regulations 1998 (PUWER)					
	Personal Protective Equipment at Work					
	Regulations 1992 (PPE Regs)					
	Control Of Substances Hazardous to Health					
	Regulations (COSHH)					
	The Health and Safety (First Aid) Regulations 1992					
	Reporting of Injuries Diseases Dangerous					
	Occurrence Regulations (RIDDOR)					
	Wildlife and Countryside Act 1981					
	Countryside and Rights of Way Act 2000					
	Sustainable Use (PPP) regulations					
	Pesticides Code of Practice					
	2 sources of industry best practice					
	Operator certification					
	Risk assessments					
	Condition and guarding of equipment					
Carry o	ut COSHH assessment					
	Using template provided or an approved template					
Carry o	ut SSRA					
	Assessor to complete a Site Specific Risk					
	Assessment, using provided template.					
	Header and footer.					
	Hazards and controls relative to site, task and					
	equipment.					
Carry o	ut environmental assessment					
	Environmental risks to site identified					
	Methods to minimise risks explained.					

☐ Additional risks not identified on site, (that may occur in typical assessment situations) to be

discussed.

Knowledge of a range of applicators (including pump types, liquid/air flow, controls, components, induction systems)

0	Common pump types (must include Diaphragm and Piston) Liquid flow
Knowle conside	dge of machine preparation and safe driving
	Pre-use checks to prime mover
	,
	dge of operator protection, sealed cab/open n and PPE requirements and standards
	Operator protection – sealed cab
	Operator protection – open
	cab/canopy/platform CE and EN markings-relevance
	Boot specification RPE – types and reasons
	dge of a range of nozzles appropriate to tor and relevant nozzle chart interpretation Hollow cone Hollow cone air inclusion
	TV to explain the 'rule of 4' in relation to
	calculating nozzle output (if unknown)
	(Please note: Assessor to identify nozzle, explain when it would be used and interpret the
	markings. Additional detail can be obtained /
	interpreted from an appropriate nozzle chart.
Knowle	dge of nozzle body and fan adjustments,
	ng advantages and possible risks to crop/target
	Nozzle body adjustments according to overall
	height of target or foliage density Fan pitch – larger volumes of air at lower fan
_	speeds
	Large volumes of air can assist with spray
_	penetrating canopy
	Low volumes of air may not allow for full
	coverage/penetration of canopy Large volumes of air have potential to cause
	excessive drift
	Large volumes of air could damage delicate fruit/berries.

Interpr	etation of two appropriate product labels	Knowled	lge of cleaning/decontamination/disposals					
	Product label 1		Surplus dilute, disposal					
	Product label 2		Washing procedure explained					
_	1100000100012		Washings, disposal					
Calibra	te the applicator (without use of calibration		Empty container/packaging, washing, storage					
sheet/a			and disposal (Crop Protection Association Best					
-	•		· · · · · · · · · · · · · · · · · · ·					
ш	Calibration method (carried out):		Practice Guide 'Container Cleaning' 2012)					
	Application volume							
	 Amount of water for area 		e a treatment record					
	 Amount if pesticide for area 	Ц	Treatment record correctly completed					
	 Amount of pesticide for full tank 							
			ent techniques					
	ete calibration test paper		Clear and concise questions/instructions					
	Calibration test paper successfully completed		Question/instruction relative to unit.					
	Note to TV: The assessor is expected to complete		(Please note: this section only needs to be					
	all the calibration test paper exercises. A marking		completed by new PA assessors).					
	sheet range has been produced to allow for							
	variations in methods used and rounding	Note: If an existing PA assessor is adding this as a new unit, the M/C test paper and assessment technique						
	up/down.							
	- F-7		sections do not need to be completed.					
Knowle	edge of drift reduction methods	0000000	do not need to be completed.					
	Weather conditions	Total sco	ore required (on front sheet) can be adjusted to					
	Canopy density	48.	re required (on front sheet) can be adjusted to					
	Presence of natural/living windbreaks	40.						
	Direction of spraying	The cali	bration test paper must be completed by all					
	Nozzle type and size	potentia	l assessors.					
	Boom geometry							
	Pressure							
	Forward speed							
	Fan speed							
	Fan pitch							
	Air flow direction							
Carry o	ut measuring and mixing.							
	Suitable site selected.							
	Correct PPE used							
	Safe use of water supply							
	Accurate measurement of water (allowing for							
	pesticide volume) and pesticide.							
	Read a range of different measuring vessels (to							
	be read in millilitres and litres)							
	Large jug (water)							
	Small jug (chemical)							
	- 11 1							
	 Cylinder Knowledge of how to accurately 							
	· · · · · · · · · · · · · · · · · · ·							
_	measure powders/granules							
	Correct cleaning procedure of pesticide							
_	measuring vessel.							
	Avoidance of spillage. Drip tray used.							
Carry o	ut an application. Knowledge of site marking							
· 🗆								
	application)							
	Safe and accurate application carried out							
	Procedure for blocked nozzle during application							
	Procedure for refilling during application							
_	·							