

Technical Evaluation Record

V5 Jan26



QUALIFICATION:	Pesticides – PA3B Variable Geometry Boom Sprayer with Air Assistance	Qualification Code:	0216-75			
		Units:	239			
Assessor Name:		Technical Verifier Name:				
Assessor BP No: NEW? DOB:		Technical Verifier BP No:				
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 <i>(new assessors only)</i>		1		4	5	5 = Pass with 20/20 4 = Pass with 18/20 or 19/20 1 = Fail
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 operator protection, sealed cab/open platform and PPE requirements 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 two appropriate product 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. Knowledge of site marking options		1	2	3	4	5
Knowledge of cleaning/decontamination/disposals. Complete an application record.		1	2	3	4	5
Assessment techniques <i>(new assessors only)</i>		1	2	3	4	5
PERFORMANCE EVALUATION COLUMN TOTALS:						= TOTAL SCORE:
Result of Technical Evaluation (tick):	MET	TOTAL SCORE REQUIRED TO ACHIEVE ASSESSOR STATUS:				56
	NOT MET	(NB. ACHIEVED IN PERFORMANCE EVALUATION COLUMNS 4 & 5 ONLY) <i>If an existing PA Assessor then please adjust total score required to 48</i>				
ACTION PLAN FOR ASSESSOR:						
<i>Please continue on reverse if necessary</i>						
ASSESSOR COMMENTS:						
<i>Please continue on reverse if necessary</i>						
TECHNICAL VERIFIER SIGNATURE:					COST: £200 Half Day £300 Full Day	DATE:
ASSESSOR SIGNATURE:						

TECHNICAL EVALUATION RECORD

0216-75 L2 Award in the Safe Application of Pesticides Using Variable Geometry Boom or Broadcast Sprayers (PA3)

Unit 239 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).

Knowledge of H&S regulations and industry best practice

Key principles and practical relevance:

- ☐ Health and Safety at Work etc. Act (HASAWA)
- ☐ Wildlife and Countryside Act
- ☐ Management of Health and Safety at Work Regulations (MHSWR)
- ☐ Provision and Use of Work Equipment Regulations (PUWER)
- ☐ Personal Protective Equipment at Work Regulations (PPE Regs)
- ☐ Control Of Substances Hazardous to Health Regulations (COSHH)
- ☐ The Health and Safety (First Aid) Regulations
- ☐ Reporting of Injuries Diseases Dangerous Occurrence Regulations (RIDDOR)
- ☐ Sustainable Use (PPP) regulations
- ☐ Hazardous Waste Regulations
- ☐ Official Controls (Plant Protection Products) Regulations
- ☐ Work in accordance with the UK Pesticide National Action Plan (NAP)
- ☐ Pesticides Code of Practice
- ☐ 2 sources of industry best practice
- ☐ Operator certification
- ☐ Risk assessments
- ☐ Condition and guarding of equipment

Carry out COSHH assessment

- ☐ Using template provided or an approved template

Carry out 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 out 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)

Applicable to equipment used for the TE and questioning to cover knowledge of variations:

- ☐ Operating controls
- ☐ Applicator components
- ☐ Common pump types (must include Diaphragm and Piston)
- ☐ Liquid flow
- ☐ Air flow (if applicable)
- ☐ Operating differences between fixed forward speed and variable forward speed (rate controller) applicators

Knowledge of machine preparation and safe driving considerations

- ☐ Pre-use checks to prime mover
- ☐ Compatibility and security
- ☐ Safe driving
- ☐ Contact with obstacles (e.g. overhead power lines)

Knowledge of operator protection, sealed cab/open platform and PPE requirements and standards

- ☐ Operator protection – sealed cab
- ☐ Operator protection – open cab/canopy/platform
- ☐ CE, UKCA and EN markings-relevance
- ☐ Overall specifications –Type 4/5/6
- ☐ Glove specification
- ☐ Face shield
- ☐ Boot specification
- ☐ RPE – types and reasons
- ☐ Apron and reasons for use

Knowledge of a range of nozzles appropriate to applicator and relevant nozzle chart interpretation

- ☐ Hollow cone
- ☐ Hollow cone air inclusion
- ☐ Flat fan
- ☐ 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.

Knowledge of nozzle body and fan adjustments, including 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.

Interpretation of two appropriate product labels

- ☐ Product label 1
- ☐ Product label 2

Calibrate the applicator (without use of calibration sheet/aids).

- ☐ Calibration method (carried out):
 - Application volume
 - Amount of water for area
 - Amount of pesticide for area
 - Amount of pesticide for full tank

Complete calibration test paper

- ☐ Calibration test paper successfully completed
Note to TV: The assessor is expected to complete all the calibration test paper exercises. A marking sheet range has been produced to allow for variations in methods used and rounding up/down.

Knowledge of drift reduction methods

- ☐ Weather conditions
- ☐ Canopy density
- ☐ Presence of natural/living windbreaks
- ☐ Direction of spraying
- ☐ Nozzle type and size
- ☐ Boom geometry
- ☐ Pressure
- ☐ Forward speed
- ☐ Fan speed
- ☐ Fan pitch
- ☐ Air flow direction

Carry out 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)
 - Cylinder
 - Knowledge of how to accurately measure powders/granules
- ☐ Correct cleaning procedure of pesticide measuring vessel.
- ☐ Avoidance of spillage. Drip tray used.

Carry out an application. Knowledge of site marking options

- ☐ Site marking options (to ensure accurate application)
- ☐ Safe and accurate application carried out
- ☐ Procedure for blocked nozzle during application
- ☐ Procedure for refilling during application

Knowledge of cleaning/decontamination/pesticide management & disposal.

- ☐ Concentrate pesticide
- ☐ Dilute pesticide
- ☐ Washing procedure explained
- ☐ Washings, disposal
- ☐ Empty container/packaging, washing, storage and disposal (Crop Protection Association Best Practice Guide 'Container Cleaning' 2012)

Complete an application record.

- ☐ Application record correctly completed

Assessment techniques

- ☐ Clear and concise questions/instructions
- ☐ Question/instruction relative to unit.

(Please note: this section only needs to be completed by new PA assessors).

Note: *If an existing PA assessor is adding this as a new unit, the M/C test paper and assessment technique sections do not need to be completed.*

Total score required (on front sheet) can be adjusted to 48.

The calibration test paper must be completed by all potential assessors.