Technical Evaluation Record V2 Aug19

QUALIFICATION:	Pesticides – PA2A Horizontal Boom Sprayer	**Qualification Code:**	0216-50 (Ind)
		Units:	111
Assessor Name:		**Technical Verifier Name:**	
Assessor No: NEW? DOB:		**Technical Verifier 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 *(new pesticide assessors only)*	1	2	3	4	5	**1** = 12 or less/20 **2** = 14/20 **3** = 16/20 **4** = 18/20 **5** = 20/20
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 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	
Interpretation of two appropriate product labels	1	2	3	4	5	
Calibrate the applicator (without use of calibration sheet/aids).	1	2	3	4	5	
Complete calibration test paper	1				5	
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 a treatment record.	1	2	3	4	5	
Assessment techniques *(new assessors only)*	1	2	3	4	5	
PERFORMANCE EVALUATION COLUMN TOTALS:						**= TOTAL SCORE:**

Result of Technical Evaluation (tick):	**MET** / **NOT MET**	**TOTAL SCORE REQUIRED TO ACHIEVE ASSESSOR STATUS: (NB. ACHIEVED IN PERFORMANCE EVALUATION COLUMNS 4 & 5 ONLY)** *If an existing PA Assessor then please adjust total score required to 44*	**52**

ACTION PLAN FOR ASSESSOR:

Please continue on reverse if necessary

ASSESSOR COMMENTS:

Please continue on reverse if necessary

TECHNICAL VERIFIER SIGNATURE:		**COST:** **£200 Half Day** **£300 Full Day**	**DATE:**
ASSESSOR SIGNATURE:			

TECHNICAL EVALUATION RECORD

0216-50 Level 2 Award in the Safe Application of Pesticides Using Self Propelled, Mounted, Trailed Horizontal Boom Sprayers (PA2)
Unit 111 Operating Mounted, Trailed and Self Propelled Hydraulic Nozzle or Rotary Atomiser Horizontal Boom Sprayers (PA2A)

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 1974 (HASAWA)
- ☐ Management of Health and Safety at Work Regulations 1999 (MHSWR)
- ☐ Provision and Use of Work Equipment 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 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 Centrifugal)
- ☐ 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 and EN markings – relevance
- ☐ Coverall specifications – Type 4/5/6
- ☐ Glove specification
- ☐ Face shield
- ☐ Boot specification
- ☐ RPE – types and reasons

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

- ☐ Flat fan
- ☐ 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.

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 if 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 correctly complete all of 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
- ☐ Direction of spraying
- ☐ Nozzle angle
- ☐ Nozzle type and size
- ☐ Pressure
- ☐ Forward speed
- ☐ Boom height

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/disposals.

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

Complete a treatment record

- ☐ Treatment 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 44.

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