

NPTC
by City & Guilds

QUALIFICATION:	Boat mounted sprayers with hydraulic nozzles/rotary atomisers (PA5A)	Qualification Code:		0216-77			
		Units:		244			
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 (new pesticide assessors only)		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 the application approval process		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 boat preparation and safe 'driving' considerations		1	2	3	4	5	
Knowledge of operator protection 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 an appropriate product label		1	2	3	4	5	
Calibrate the applicator (without use of calibration sheet/aids).		1	2	3	4	5	
Read a range of different measuring vessels		1	2	3	4	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 an application 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	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 48					56
	NOT MET						
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

0216-77 Level 2 Award in the Safe Application of Pesticides Using Boat Mounted Equipment (PA5)
Unit 244 Operating Boat Mounted Sprayers fitted with Hydraulic Nozzles/Rotary Atomisers for Applying Pesticides to Water (PA5A)

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 Pesticides 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.
- ☐ Operator safety considerations in the aquatic environment explained.

Carry out environmental assessment

- ☐ Definition of the term in or near water
- ☐ 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 the application approval process

- ☐ Knowledge of relevant environmental agency application process.
- ☐ Completion of application form explained (this does not need to be physically completed).

Knowledge of a range of boat mounted 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
- ☐ Liquid flow
- ☐ Air flow (if applicable)

Knowledge of boat preparation and safe 'driving' considerations

- ☐ Pre-use checks to prime mover
- ☐ Compatibility and security
- ☐ Safe driving
- ☐ Contact with obstacles

Knowledge of operator protection and PPE requirements and standards

- ☐ CE, UKCA and EN markings – relevance
- ☐ Coverall specifications – Type 4/5/6
- ☐ Glove specification
- ☐ Face shield
- ☐ Boot specification
- ☐ RPE – types and reasons
- ☐ Apron and reasons for use
- ☐ Personal buoyancy equipment

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

- ☐ Flat fan
- ☐ 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 an appropriate product label

- ☐ Product label 1

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

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.

Knowledge of drift reduction methods

- ☐ Weather conditions
- ☐ Direction of spraying
- ☐ Nozzle angle
- ☐ Nozzle type and size
- ☐ Pressure
- ☐ Boat 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.
- ☐ 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.