

CITY & GUILDS LEVEL 2 AWARD IN THE SAFE APPLICATION OF PELLETTED OR GRANULAR PESTICIDES USING MOUNTED OR TRAILED APPLICATORS (PA4) 601/5143/2



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 2	L2 Award in the Safe Application of Pelleted or Granular Pesticides Using Mounted or Trailed Applicators (PA4)
Unit(s)	1 3 1 1 3 2	Operating Mounted or Trailed Granular Pesticide Applicators (PA4G) (F/505/7690) Operating Mounted or Trailed Slug Pellet Applicators (PA4S) (L/505/7692)
Guided Learning Hours (GLH)		54
Total Qualification Time (TQT)		60
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
1.1 November 2017	Added TQT details Deleted QCF / Learning Time	Qualification at a glance, Structure Throughout
1.2 April 2022	GLH/TQT Clarified and highlighted City & Guilds address updated	Qualifications at a glance Pg 4

City & Guilds Level 2 Award In the Safe Application of Pelleted or Granular Pesticides Using Mounted or Trailed Applicators (PA4) 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 **two** optional units:

Unit 131 – PA4G	(Optional)	(Credit Value 3)	(Print pages 5 – 10 plus 17)
Outcome 1.	Know the legislative and safety regulations relating to the application of granular pesticides (Criteria 1.1 – 1.2)		
Outcome 2.	Be able to assess the environmental factors relating to the application site (Criteria 2.1 - 2.2)		
Outcome 3.	Be able to read and interpret product information (Criteria 3.1 – 3.2)		
Outcome 4.	Be able to prepare and calibrate the application equipment (Criteria 4.1 – 4.5)		
Outcome 5.	Be able to operate the application equipment (Criteria 5.1 – 5.4)		
Outcome 6.	Know how to carry out post-operational procedures (Criteria 6.1 – 6.3)		
Unit 132 – PA4S	(Optional)	(Credit Value 3)	(Print pages 11 – 17)
Outcome 1.	Know the legislative and safety regulations relating to the application of slug pellets (Criteria 1.1 – 1.2)		
Outcome 2.	Be able to assess the environmental factors relating to the application site (Criteria 2.1 – 2.2)		
Outcome 3.	Be able to read and interpret product information (Criteria 3.1 – 3.2)		
Outcome 4.	Be able to prepare and calibrate the application equipment (Criteria 4.1 – 4.5)		
Outcome 5.	Be able to operate the application equipment (Criteria 5.1 – 5.4)		
Outcome 6.	Know how to carry out post-operational procedures (Criteria 6.1 – 6.3)		

Candidates must successfully achieve **all** assessment activities in their chosen unit(s).

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.

Quality Assurance continued...

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 assessment 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.

Safe Practice continued...

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 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 **may not** 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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London
EC1A 9DE

Unit 131 - Operating Mounted or Trailed Granular Pesticide Applicators (PA4G)

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:

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 131 1.1	Describe the legal requirements relating to applying granular pesticides using mounted or trailed equipment	Candidate to describe two operator's obligations in terms of legal requirements	<p>May include:</p> <ul style="list-style-type: none"> all required guards are in place and equipment complies with legal requirements comply with all relevant road traffic regulations when operating or transporting on the public highway comply with The Plant Protection Products (Sustainable Use) Regulations 2012 the operator must hold the appropriate certification for the equipment they are using <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 1.2	Describe how to apply granular pesticides safely using mounted or trailed equipment following industry best practice	<p>Candidate to describe one operator safety regulation in terms of using granular pesticide applicators</p> <p>Candidate to describe two precautions the operator may take to protect self from pesticide contamination when operating the prime mover</p> <p>Candidate to describe three checks to be made by the operator in order to protect self from injury during operation</p> <p>Candidate to describe four aspects of safe practice to be considered when driving/riding on uneven/sloping terrain</p> <p>Candidate to state one consideration for safe driving/riding on the public highway</p>	<p>May include:</p> <ul style="list-style-type: none"> comply with codes of best practice ensure that all required guards are in place and in good condition be aware of any safety implications imposed by Risk/COSHH Assessment on the machine and the operation and comply with their requirements <p>sealed cab:</p> <ul style="list-style-type: none"> carbon filter fitted use of in cab controls ensure a functioning ventilation system close all windows no contaminated PPE into operator cab <p>open cab/canopy/platform:</p> <ul style="list-style-type: none"> use of appropriate PPE <p>May include:</p> <ul style="list-style-type: none"> compatibility of prime mover and applicator appropriate additional weighting correct tyre pressures condition of tyres wheel track width brakes functioning correctly <p>May include:</p> <ul style="list-style-type: none"> assess conditions select four wheel drive (if fitted) appropriate speed correct gear selected effect of changing load on stability use of counterbalance weights correct turning procedure keep a low centre of gravity <p>May include:</p> <ul style="list-style-type: none"> independent brakes locked instability at high speeds correct road legal tyres (ATV) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 131 2.1	Identify risks to the environment	Candidate to identify all relevant risks to the environment for the application site	<p>May include:</p> <ul style="list-style-type: none"> • water courses • drains • boreholes • ground conditions • environmental margins/strips/areas • wildlife • sensitive crops or areas • hedgerows • housing • public access • any other risks particular to the site <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 2.2	Explain how to minimise risks to the environment	<p>Candidate to explain how to minimise the identified risks in 2.1</p> <p>Candidate to state three factors that should be taken into account to protect the environment</p> <p>Candidate to check and comment on wind speed and direction</p> <p>Candidate to state five factors that may affect uniformity of spread from the applicator</p>	<p>May include:</p> <ul style="list-style-type: none"> • check and maintain application rate • erect warning signs • observe environmental margins/strips/areas • inform neighbours • use an appropriate pesticide (minimal environmental impact) • maintain application rate • careful timing of application • comply with Environmental Assessment <p>May include:</p> <ul style="list-style-type: none"> • awareness and implications of product entering watercourses • avoid contamination of hedgerows & field margins • avoid contamination of wildlife/domestic pets • effect of wind speed and direction • appropriate direction of travel • maintain accuracy of application <p>To include:</p> <ul style="list-style-type: none"> • anemometer at suitable height or visible signs • wind direction <p>May include:</p> <ul style="list-style-type: none"> • applicator levelled according to manufacturer's recommendations • applicator at correct height • correct settings of spreading mechanism • size/density of granules • wind • slope • forward speed • ground conditions <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 3.1 Unit 131 3.2	Read product information Interpret product information	<p>The candidate is required to read and interpret the product information and provide relevant information as requested by the Assessor</p> <p>Note to the Assessor: Product information is required. It is expected that the candidate will provide the product information. The product information provided must be for a currently approved product and appropriate to the candidates normal work situation</p> <p>Note to the Candidate (Assessor also to note): It is acceptable for key information on the product label to be highlighted for use during the assessment</p>	<p>May include:</p> <ul style="list-style-type: none"> • product name • active substance(s) (ingredient(s)) • field of use • operator protection • specific product precautions • appropriate for type of applicator • application (dose) rate • maximum number of treatments • timing • environmental protection • restrictions on use • additional label information <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 131 4.1	Identify the applicator components and controls	Candidate to identify all components and controls relating to the applicator being used for the assessment	May include: <ul style="list-style-type: none"> on/off control metering mechanism hopper lid emptying outlet/mechanism agitator fan and /or other items specific to the applicator boom isolators (if applicable) other controls specific to the applicator <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 4.2	Carry out pre-use checks to the prime mover	Candidate to carry out all pre-use checks relevant to the prime mover being used for the assessment	May include: <ul style="list-style-type: none"> guards in place and in good condition visual inspection of the wheels and tyres tyre pressures fuel level adequate engine oil level is within acceptable limits hydraulic oil level is within acceptable limits (if accessible) transmission oil level is within acceptable limits (if accessible) coolant level is adequate engine air filter is clean <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 4.3	Carry out pre-use and operational checks to the applicator	Candidate to carry out all pre-use and operational checks relevant to the applicator Check security of attachment of applicator mechanisms Check for mechanical defects Check that the applicator is lubricated correctly Check boom settings, suspension and break-back devices Part fill the applicator Candidate to explain how to use the control panel to ensure that the applicator is functioning correctly (if applicable) State one action to be taken if the control panel fails	May include: <ul style="list-style-type: none"> fasteners tight straps inspected and adjusted if necessary linkage secure sideways movement restricted drawbar pin secured seized, worn or damaged controls/components electrical connectors/cable routing air supply impeded identification of lubrication points visual inspection of lubrication points visual inspection of levels boom suspension operational (if applicable) break-back efficiency (if applicable) height adjustment (if applicable) May include: <ul style="list-style-type: none"> suitable site selected fill by usual on-site method, following approved procedures manual handling considerations optimum positioning for efficiency security of pesticide on site facility for dealing with/containing spillages May include: <ul style="list-style-type: none"> functions of control panel recognition of malfunctions before and during operation check accuracy of base settings switch to manual/test mode where applicable May include: <ul style="list-style-type: none"> stop pesticide application switch to manual operation <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
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Unit 131 4.4	Calibrate the applicator and record relevant data	<p>Candidate is required to calibrate the applicator and record relevant data</p> <p>Select and record forward speed (if applicable)</p> <p>Calculate required output</p> <p>Set applicator to achieve required application rate</p> <p>Carry out check of application rate and adjust applicator to achieve the correct application rate</p> <p>Candidate to state four items of data that should be recorded for future reference</p>	<p>May include:</p> <ul style="list-style-type: none"> trial run on typical ground to establish acceptable applicator performance accurate measurement of distance time in seconds to cover distance using gear and rpm established correct use of formula to establish forward speed use of manufacturers handbook/application charts correct use of formula use of manufacturers handbook/application charts follow recommendations given in manufacturers operator handbook run applicator for specific period of time or distance care to avoid moving parts collect product distributed (if applicable) accurate weighing of output compare with target rates (check product label) repeat until target rates achieved <p>May include:</p> <ul style="list-style-type: none"> applicator settings granule used for calibration application rate achieved registration number of prime mover gear selected engine speed (rpm) vehicle forward speed vehicle wheel sizes and tyre pressure <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 4.5	Calculate the quantity of granules required for a specified area	Calculate the quantity of granules required for a specified area	<p>To include:</p> <ul style="list-style-type: none"> the correct amount required for the specified area <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 5.1	Weigh the required quantity of granules and add to the applicator	Candidate to weigh and add the required quantity for the area as calculated in 4.5	<p>To include:</p> <ul style="list-style-type: none"> ensure approved techniques are followed with due regard to safe practice correct selection of PPE/RPE as determined by label/COSHH Assessment suitable site selected fill safely observing safe lifting techniques accurate weighing of granules avoidance of spillage <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 5.2	Demonstrate safe and accurate application procedures	<p>Candidate to describe two appropriate methods of marking out a site in order to ensure accurate application</p> <p>Candidate to explain the appropriate procedure when refilling the applicator part way through an application</p>	<p>To include:</p> <ul style="list-style-type: none"> tramlines wheelings crop rows marker poles GPS <p>To include:</p> <ul style="list-style-type: none"> carefully avoid contact with the contaminated area mark the spot where the application stopped (any appropriate method) refill the applicator return to marked spot to continue application 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continued				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Cont... Unit 131 5.2		Candidate to apply granules to treat a specified area appropriate to the candidates normal work situation and sufficient to demonstrate safe and accurate application procedures	To include: <ul style="list-style-type: none"> ensure applicator is level applicator set at the correct height operate controls to start and finish applying accurately at beginning and end of each bout maintain correct forward speed accurate matching of bouts/use of driving aids awareness of techniques to counteract unbalanced applicator performance coping with obstacles correct application rate all areas treated, minimising overlaps or misses awareness of changes in wind speed and direction <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 5.3	Carry out all activities avoiding risks to human health and the environment	Note to the Assessor: Assessor must be satisfied that the candidate has carried out all activities protecting human health and the environment	To include: <ul style="list-style-type: none"> prevention of personal injury and contamination through correct selection and use of PPE/RPE (as required by the product information and/or COSHH/Risk Assessment) prevention of public/bystander contamination safe filling procedure safe on-site storage of pesticide avoidance of off target application avoidance of over dosing/under dosing crop/target possible soil incorporation <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 5.4	Complete a treatment record	Candidate is required to complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	Completion of the treatment record must be: <ul style="list-style-type: none"> accurate legible (if handwritten) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 6.1	State how to recover and store surplus granules and how to dispose of waste material	Candidate to state three factors to consider when recovering surplus granules from the applicator Candidate to state one method of storing surplus granules Candidate to state two methods of dealing with waste packaging	May include: <ul style="list-style-type: none"> avoid personal contamination select appropriate PPE/RPE ensure that the applicator is made safe (engine stopped, power isolated) select appropriate site appropriate container used correct label attached May include: <ul style="list-style-type: none"> return to temporary mobile store return to fixed storage facility May include: <ul style="list-style-type: none"> packaging thoroughly emptied placed in secure storage until disposal collection by licensed waste disposal contractor <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 131 6.2	Explain how to clean and decontaminate the applicator and the prime mover	Candidate to explain three factors to be taken into consideration when cleaning and decontaminating the applicator and if applicable the prime mover	May include: <ul style="list-style-type: none"> danger of personal contamination select appropriate PPE select an appropriate containment site appropriate containers for contaminated material follow manufacturers cleaning procedure ensure that the applicator is made safe (engine stopped, power isolated) suitable containment/disposal of granules or contaminated soil arising from cleaning operation when the applicator should be cleaned <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 131 6.3	Describe the storage requirements for the applicator	Candidate to describe three factors to consider when storing the applicator	May include: <ul style="list-style-type: none"> • refer to manufacturers handbook • ensure applicator is clean and decontaminated • inspect for wear and damage • replace any worn or damaged parts • carry out lubrication procedures • store under cover and out of direct sunlight • store in a secure area <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Unit 132 - Operating Mounted or Trailed Slug Pellet Applicators PA4S

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:

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 132 1.1	Describe the legal requirements relating to applying slug pellets using mounted or trailed equipment	Candidate to describe two operator's obligations in terms of legal requirements	<p>May include:</p> <ul style="list-style-type: none"> all required guards are in place and equipment complies with legal requirements comply with all relevant road traffic regulations when operating or transporting on the public highway comply with The Plant Protection Products (Sustainable Use) Regulations 2012 the operator must hold the appropriate certification for the equipment they are using <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 1.2	Describe how to apply slug pellets safely using mounted or trailed equipment following industry best practice	<p>Candidate to describe one operator safety regulation in terms of using slug pellet applicators</p> <p>Candidate to describe two precautions the operator may take to protect self from pesticide contamination when operating the prime mover</p> <p>Candidate to describe three checks to be made by the operator in order to protect self from injury during operation</p> <p>Candidate to describe four aspects of safe practice to be considered when driving/riding on uneven/sloping terrain</p> <p>Candidate to state one consideration for safe driving/riding on the public highway</p>	<p>May include;</p> <ul style="list-style-type: none"> comply with codes of best practice ensure that all required guards are in place and in good condition be aware of any safety implications imposed by Risk/COSHH Assessment on the machine and the operation and comply with their requirements <p>sealed cab:</p> <ul style="list-style-type: none"> carbon filter fitted use of in cab controls ensure a functioning ventilation system close all windows no contaminated PPE into operator cab <p>open cab/canopy/platform:</p> <ul style="list-style-type: none"> use of appropriate PPE pellet shield <p>May include:</p> <ul style="list-style-type: none"> compatibility of prime mover and applicator appropriate additional weighting correct tyre pressures condition of tyres wheel track width brakes functioning correctly <p>May include:</p> <ul style="list-style-type: none"> assess conditions select four wheel drive (if fitted) appropriate speed correct gear selected effect of changing load on stability use of counterbalance weights correct turning procedure keep a low centre of gravity <p>May include:</p> <ul style="list-style-type: none"> independent brakes locked instability at high speeds correct road legal tyres (ATV) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 132 2.1	Identify risks to the environment	Candidate to identify all relevant risks to the environment for the application site	<p>May include:</p> <ul style="list-style-type: none"> • water courses • drains • boreholes • ground conditions • environmental margins/strips/areas • wildlife • sensitive crops or areas • hedgerows • housing • public access • any other risks particular to the site <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 2.2	Explain how to minimise risks to the environment	<p>Candidate to explain how to minimise the identified risks in 2.1</p> <p>Candidate to state three factors that should be taken into account to protect the environment</p> <p>Candidate to check and comment on wind speed and direction</p> <p>Candidate to state five factors that may affect uniformity of spread from the applicator</p>	<p>May include:</p> <ul style="list-style-type: none"> • adopt stewardship recommendations relating to individual/maximum doses of active ingredients • check and maintain application rate • erect warning signs • observe environmental margins/strips/areas • inform neighbours • use an appropriate pesticide (minimal environmental impact) • maintain application rate • careful timing of application • comply with Environmental Assessment <p>May include:</p> <ul style="list-style-type: none"> • awareness and implications of product entering watercourses • avoid contamination of 'no spread zone', hedgerows and other field margins • avoid contamination of wildlife/domestic pets • effect of wind speed and direction • appropriate direction of travel • maintain accuracy of application <p>To include:</p> <ul style="list-style-type: none"> • wind speed gauge at suitable height or visible signs • wind direction <p>May include:</p> <ul style="list-style-type: none"> • applicator levelled according to manufacturer's recommendations • applicator at correct height • correct settings of spreading mechanism • consistency of disc speed • size/density of pellets • wind • slope • forward speed • ground conditions <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 132 3.1 Unit 132 3.2	Read product information Interpret product information	The candidate is required to read and interpret the product information and provide relevant information as requested by the Assessor Note to the Assessor: Product information is required. It is expected that the candidate will provide the product information The product information provided must be for a currently approved product and appropriate to the candidates normal work situation Note to the Candidate (Assessor also to note): It is acceptable for key information on the product label to be highlighted for use during the assessment	May include: <ul style="list-style-type: none"> • product name • active substance(s) (ingredient(s)) • field of use • operator protection • specific product precautions • appropriate for type of applicator • application (dose) rate • maximum number of treatments • timing • environmental protection • no spread zone • baiting recommendations • restrictions on use • additional label information <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 4.1	Identify the applicator components and controls	Candidate to identify all components and controls relating to the applicator being used for the assessment	May include: <ul style="list-style-type: none"> • on/off control • metering mechanism • bias mechanism • hopper • lid • emptying outlet/mechanism • agitator • disc speed control • spread width limiter • fan and /or other items specific to the applicator • boom isolators (if applicable) • other controls specific to the applicator <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 4.2	Carry out pre-use checks to the prime mover	Candidate to carry out all pre-use checks relevant to the prime mover being used for the assessment	May include: <ul style="list-style-type: none"> • guards in place and in good condition • visual inspection of the wheels and tyres • tyre pressures • fuel level adequate • engine oil level is within acceptable limits • hydraulic oil level is within acceptable limits (if accessible) • transmission oil level is within acceptable limits (if accessible) • coolant level is adequate • engine air filter is clean <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 4.3 Continued	Carry out pre-use and operational checks to the applicator	Candidate to carry out all pre-use and operational checks relevant to the applicator Check security of attachment of applicator mechanisms Check for mechanical defects Check that the applicator is lubricated correctly	May include: <ul style="list-style-type: none"> • fasteners tight • straps inspected and adjusted if necessary • linkage secure • sideways movement restricted • drawbar pin secured • seized, worn or damaged controls/components • electrical connectors/cable routing • air supply impeded • identification of lubrication points • visual inspection of lubrication points • visual inspection of levels 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Cont... Unit 132 4.3		<p>Check boom settings, suspension and break-back devices</p> <p>Part fill the applicator</p> <p>Candidate to explain how to use the control panel to ensure that the applicator is functioning correctly (if applicable)</p> <p>State one action to be taken if the control panel fails</p>	<ul style="list-style-type: none"> boom suspension operational (if applicable) break-back efficiency (if applicable) height adjustment (if applicable) <p>May include:</p> <ul style="list-style-type: none"> suitable site selected fill by usual on-site method, following approved procedures manual handling considerations optimum positioning for efficiency security of pesticide on site facility for dealing with/containing spillages <p>May include:</p> <ul style="list-style-type: none"> functions of control panel recognition of malfunctions before and during operation check accuracy of base settings switch to manual/test mode where applicable <p>May include:</p> <ul style="list-style-type: none"> stop pesticide application switch to manual operation <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 4.4	Calibrate the applicator and record relevant data	<p>Candidate is required to calibrate the applicator and record relevant data</p> <p>Select and record forward speed (if applicable)</p> <p>Calculate required output</p> <p>Set applicator to achieve required application rate</p> <p>Carry out check of application rate and adjust applicator to achieve the correct application rate</p> <p>Candidate to state four items of data that should be recorded for future reference</p>	<p>May include:</p> <ul style="list-style-type: none"> trial run on typical ground to establish acceptable applicator performance accurate measurement of distance time in seconds to cover distance using gear and rpm established correct use of formula to establish forward speed use of manufacturers handbook/application charts correct use of formula use of manufacturers handbook/application charts follow recommendations given in manufacturers operator handbook run applicator for specific period of time or distance care to avoid moving parts collect product distributed (if applicable) accurate weighing of output compare with target rates (check product label) repeat until target rates achieved <p>May include:</p> <ul style="list-style-type: none"> applicator settings pellet used for calibration application rate achieved spreading width registration number of prime mover gear selected engine speed (rpm) vehicle forward speed vehicle wheel sizes and tyre pressure <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 4.5	Calculate the quantity of pellets required for a specified area	Candidate to calculate the quantity of pellets required for a specified area	<p>To include:</p> <ul style="list-style-type: none"> the correct amount required for the specified area <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 132 5.1	Weigh the required quantity of pellets and add to the applicator	Candidate to weigh and add the required quantity for the area as calculated in 4.5	To include: <ul style="list-style-type: none"> ensure approved techniques are followed with due regard to safe practice correct selection of PPE/RPE as determined by label/COSHH Assessment suitable site selected fill safely observing safe lifting techniques accurate weighing of pellets avoidance of spillage <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 5.2	Demonstrate safe and accurate application procedures	Candidate to describe two appropriate methods of marking out a site in order to ensure accurate application Candidate to explain the appropriate procedure when refilling the applicator part way through an application Candidate to apply pellets to treat a specified area appropriate to the candidates normal work situation and sufficient to demonstrate safe and accurate application procedures	To include: <ul style="list-style-type: none"> tramlines wheelings crop rows marker poles GPS To include: <ul style="list-style-type: none"> carefully avoid contact with the contaminated area mark the spot where the application stopped (any appropriate method) refill the applicator return to marked spot to continue application To include: <ul style="list-style-type: none"> ensure applicator is level applicator set at the correct height operate controls to start and finish applying accurately at beginning and end of each bout maintain correct forward speed accurate matching of bouts/use of driving aids awareness of techniques to counteract unbalanced applicator performance coping with obstacles correct application rate check uniformity of spread all areas treated, minimising overlaps or misses awareness of changes in wind speed and direction <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 5.3	Carry out all activities avoiding risks to human health and the environment	Note to the Assessor: Assessor must be satisfied that the candidate has carried out all activities protecting human health and the environment	To include: <ul style="list-style-type: none"> prevention of personal injury and contamination through correct selection and use of PPE/RPE (as required by the product information and/or COSHH/Risk Assessment) prevention of public/bystander contamination safe filling procedure safe on-site storage of pesticide avoidance of off-target application avoidance of over dosing/under dosing crop/target <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 5.4	Complete a treatment record	Candidate is required to complete a treatment record Note to the Assessor: The treatment record must be approved by the Assessor (or supplied by the Assessor if necessary)	Completion of the treatment record must be: <ul style="list-style-type: none"> accurate legible (if handwritten) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Unit 132 6.1	State how to recover and store surplus slug pellets and how to dispose of waste material	Candidate to state three factors to consider when recovering surplus pellets from the applicator Candidate to state one method of storing surplus slug pellets Candidate to state two methods of dealing with waste packaging	May include: <ul style="list-style-type: none"> • avoid personal contamination • select appropriate PPE/RPE • ensure that the applicator is made safe (engine stopped, power isolated) • select appropriate site • appropriate container used • correct label attached May include: <ul style="list-style-type: none"> • return to temporary mobile store • return to fixed storage facility May include: <ul style="list-style-type: none"> • packaging thoroughly emptied • placed in secure storage until disposal • collection by licensed waste disposal contractor <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 6.2	Explain how to clean and decontaminate the applicator and the prime mover	Candidate to explain three factors to be taken into consideration when cleaning and decontaminating the applicator and if applicable the prime mover	May include: <ul style="list-style-type: none"> • danger of personal contamination • select appropriate PPE • select an appropriate containment site • appropriate containers for contaminated material • follow manufacturers cleaning procedure • ensure that the applicator is made safe (engine stopped, power isolated) • suitable containment/disposal of pellets or contaminated soil arising from cleaning operation • when the applicator should be cleaned <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 132 6.3	Describe the storage requirements for the applicator	Candidate to describe three factors to consider when storing the applicator	May include: <ul style="list-style-type: none"> • refer to manufacturers handbook • ensure applicator is clean and decontaminated • inspect for wear and damage • replace any worn or damaged parts • carry out lubrication procedures • store under cover and out of direct sunlight • store in a secure area <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Summary of Assessment (The Assessor is to complete the following as appropriate)

Candidate A	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	Signed:		Date:	

Candidate B	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	Signed:		Date:	

Candidate C	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	Signed:		Date:	

Candidate D	Candidate has met all of the assessment criteria	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
	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 <input checked="" type="checkbox"/> <input type="checkbox"/>
I observed an assessment process taking place. The following were noted as areas of concern.	Tick <input checked="" type="checkbox"/> <input type="checkbox"/>
Signed:	
Date:	