

City & Guilds Level 2 Award in Safe Application of Pelleted or Granular Pesticides using Mounted or Trailed Applicators (PA4) (0216-52)

Version 1.1 (February 2025)

Assessment Pack – Candidate Version

Version and date	Change detail	Section
1.0 February 2024	First version	ALL
1.1 February 2025	Unit Numbers amended Formatting	Throughout

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Introduction

This assessment relates to the unit in the Qualification handbook. The assessment can be achieved at pass only. If any task is not yet met the candidate is unsuccessful.

This assessment is for the following units and learning outcomes:

Unit 242 Safe application of pelleted or granular pesticides using mounted or trailed applicators covering the following learning outcomes:

- Know the legislative and safety regulations relating to the application of granular pesticides
- 2. Be able to assess the environmental factors relating to the application site
- 3. Be able to read and interpret product information
- 4. Be able to prepare and calibrate the application equipment
- 5. Be able to operate the application equipment
- 6. Know how to carry out post-operational processes

Unit 243 Operating mounted or trailed slug pellet applicators covering the following learning outcomes:

- 1. Know the legislative and safety regulations relating to the application of slug pellets
- 2. Be able to assess the environmental factors relating to the application site
- 3. Be able to read and interpret product information
- 4. Be able to prepare and calibrate the application equipment
- 5. Be able to operate the application equipment
- 6. Know how to carry out post-operational procedures

General guidance on the requirements for assessment can be found in the Assessor Guidance General guidance on the requirements for assessment can be found in the Assessor Guidance document available on the City & Guilds web site www.nptc.org.uk

The assessor must complete the Practical Table mark sheet for each candidate which should be kept by the assessor for a minimum period of twelve months.

Assessment Time

The expected assessment time for this qualification is 1.5 - 3 hours.

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)

This is not an open book assessment, however additional technical information may be sought from the relevant manufacturer's operator manuals or any other appropriate training or safety publication.

Practical observation descriptor table

Unit 242 Operating mounted or trailed granular pesticide applicators

Activ	vity number and description from check list	Assessment criteria
1.1	Describe the legal requirements relating to applying granular pesticides using mounted or trailed equipment	 May include: 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
1.2	Describe how to apply granular pesticides safely using mounted or trailed equipment following industry best practice	 Operator safety regulation may include: 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 Sealed cab: Checks to protect self from pesticide contamination: carbon filter fitted use of in cab controls ensure a functioning ventilation system close all windows no contaminated PPE into operator cab Open cab/canopy/platform: use of appropriate PPE Checks to protect self from physical danger during operation: compatibility of prime mover and applicator appropriate additional weighting correct tyre pressures condition of tyres wheel track width brakes functioning correctly Safe practice when driving on uneven/sloping terrain: assess conditions select four wheel drive (if fitted) appropriate speed

	correct goar selected
	correct gear selectedeffect of changing load on stability
	0 0
	use of counterbalance weights
	correct turning procedure
	keep a low centre of gravity
	Consideration for safe driving on a public
	highway:
	independent brakes locked
	instability at high speeds
	correct road legal tyres (ATV)
Identify risks to the environment	May include:
	water courses
	drains
	 boreholes
	ground conditions
2.1	 environmental margins/strips/areas
2.1	wildlife
	sensitive crops or areas
	hedgerows
	housing
	public access
	any other risks particular to the site
Explain how to minimize risks to the	Explanation may include the following
environment	points:
CHVIIOIIIICH	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
	Factors to protect the environment:
	awareness and implications of product
	entering watercourses
2.2	
	avoid contamination of nedgerows & field margins
	pets • offect of wind speed and direction
	effect of wind speed and direction appropriate direction of travel
	appropriate direction of travel maintain accuracy of application
	maintain accuracy of application Check wind apped and direction:
	Check wind speed and direction:
	anemometer at suitable height or visible
	signs
	wind direction Factors that affect uniformity of annual from
	Factors that affect uniformity of spread from
	applicator:
	applicator levelled according to
	manufacturer's recommendations
	 applicator at correct height

		a correct acttings of anneading
		correct settings of spreading mechanism
		ale a fala malting a francisco de a
		size/density of granules wind
		slope
		forward speed
		ground conditions
	Read product information	May include:
	Interpret product information	product name
	morprot product information	active substance(s) (ingredient(s))
		field of use
		operator protection
0.4		specific product precautions
3.1		 appropriate for type of applicator
3.2		
3.2		application (dose) rate
		maximum number of treatments
		• timing
		environmental protection
		restrictions on use
		additional label information
	Identify applicator components and	May include:
	controls	on/off control
		metering mechanism
		hopper
		• lid
4.1		emptying outlet/mechanism
		agitator
		fan and /or other items specific to the
		applicator
		boom isolators (if applicable)
		other controls specific to the applicator
	Carry out pre-use checks to the	May include:
	prime	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
4.2		limits
		hydraulic oil level is within acceptable
		limits (if accessible)
		transmission oil level is within
		acceptable limits (if accessible)
		and and level to a decreate
		engine air filter is clean Security of attachment
4.3	Carry out pre-use and operational	Security of attachment
	checks to the applicator	fasteners tight

		straps inspected and adjusted if
		necessary
		linkage secure
		sideways movement restricted
		drawbar pin secured
		Possible mechanical defects:
		seized, worn or damaged
		controls/components
		electrical connectors/cable routing
		air supply impeded
		Applicator lubrication:
		identification of lubrication points
		visual inspection of lubrication points
		 visual inspection of levels
		Boom settings, suspension and break-back
		devices:
		boom suspension operational (if
		applicable)
		break-back efficiency (if applicable)
		 height adjustment (if applicable)
		Part fill applicator to include:
		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
		Use of control panel may include:
		functions of control panel
		 recognition of malfunctions before and
		during operation
		check accuracy of base settings
		switch to manual/test mode where
		applicable
		Action in event of control panel failing:
		stop pesticide applicationswitch to manual operation
	Calibrate the applicator and record	Select and record forward speed:
	relevant data	trial run on typical ground to establish
		acceptable applicator performance
		accurate measurement of distance
4.4		time in seconds to cover distance using
		gear and rpm established
		correct use of formula to establish
		forward speed
		Calculate required output:
		1 1

		T
		use of manufacturers handbook/application charts
		handbook/application charts
		correct use of formula
		Set applicator:
		use of manufacturers
		handbook/application charts
		 follow recommendations given in
		manufacturers operator handbook
		Adjust applicator:
		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
		Calibration data:
		applicator settings
		1 - 1
		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
	Calculate the quantity of granules	To include:
4.5	required for a specified area	the correct amount required for the
		specified area
	Weigh the required quantity of	To include:
	granules and add to the applicator	ensure approved techniques are
		followed with due regard to safe
		practice
		 correct selection of PPE/RPE as
5.1		determined by label/COSHH
3.1		Assessment
		suitable site selected
		fill safely observing safe lifting
		techniques
		 accurate weighing of granules
		avoidance of spillage
	Demonstrate safe and accurate	Methods to achieve accurate application
	application procedures	May include the following:
5.2		• tramlines
		 wheelings
		• crop rows
		3100 10110

marker poles		-
application:		• GPS
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 Demonstrate safe and accurate application procedures to include: 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 Carry out all activities avoiding risks to human health and the environment Carry out all activities avoiding risks to human health and the environment To include: 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 illling procedure safe on-site storage of pesticide avoidance of off target application avoidance of over dosing/under dosing crop/target possible soil incorporation		Procedure to refill tank part way through
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 avoidance of over dosing/under dosing crop/target possible soil incorporation 		· .
crop/target • possible soil incorporation		
possible soil incorporation		
Complete a treatment record Completion of the treatment record must	Complete a treatment record	possible soil incorporation Completion of the treatment record must
be:	·	I
• accurate	5.4	accurate
legible (if handwritten)		legible (if handwritten)

6.1	State how to recover and store surplus granules and how to dispose of waste material	Recovering surplus granules: 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 Storing surplus granules: return to temporary mobile store return to fixed storage facility Waste packaging: packaging thoroughly emptied placed in secure storage until disposal collection by licensed waste disposal contractor
6.2	Explain how to clean and contaminate the applicator and the prime mover	 May include: 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
6.3	Describe the storage requirements for the applicator	May include: refer to manufacturer's 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

Unit 243 Operating mounted or trailed slug pellet applicators

Activ	vity number and description from check list	Assessment criteria
1.1	Describe the legal requirements relating to applying slug pellets using mounted or trailed equipment	 May include: 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
1.2	Describe how to apply slug pellets safely using mounted or trailed equipment following industry best practice	Operator safety regulations may include: 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 Checks to protect self from pesticide contamination: Sealed cab: carbon filter fitted use of in cab controls ensure a functioning ventilation system close all windows no contaminated PPE into operator cab Open cab/canopy/platform: use of appropriate PPE pellet shield Protect self from injury during operation: compatibility of prime mover and applicator appropriate additional weighting correct tyre pressures condition of tyres wheel track width brakes functioning correctly Safe practice when driving on uneven/sloping terrain: assess conditions select four wheel drive (if fitted)

	 correct gear selected effect of changing load on stability use of counterbalance weights correct turning procedure keep a low centre of gravity Consideration for safe driving on a public highway: independent brakes locked instability at high speeds correct road legal tyres (ATV)
2.1	May include: • 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
2.2	Explanation may include the following points: 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 Factors to protect the environment: 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

		 Check wind speed and direction: wind speed gauge at suitable height or visible signs wind direction Factors that affect uniformity of spread from applicator: 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
		forward speed ground conditions
	<u> </u>	ground conditions May include:
3.1 - 3.2	Read product information Interpret product information	 May include: 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
4.1	Identify the applicator components and controls	May include: 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
4.2	Carry out pre-use checks to the prime mover	May include:

		 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
	Community management and are and discount	Security of attachment:
	Carry out pre-use and operational	,
	checks to the applicator	fasteners tight
		straps inspected and adjusted if
		necessary
		linkage secure
		sideways movement restricted
		-
		drawbar pin secured
		Possible mechanical defects:
		 seized, worn or damaged
		controls/components
		electrical connectors/cable routing
		air supply impeded
		Applicator lubrication:
		identification of lubrication points
		 visual inspection of lubrication points
		 visual inspection of levels
4.3		Boom settings, suspension and break-back
7.0		devices:
		boom suspension operational (if
		applicable)
		break-back efficiency (if applicable)
		height adjustment (if applicable)
		Part fill applicator:
		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
		Use of control panel may include:
		 functions of control panel

Calibrate the applicator and record relevant data	 recognition of malfunctions before and during operation check accuracy of base settings switch to manual/test mode where applicable Action in event of control panel failing: stop pesticide application switch to manual operation Select and record forward speed: 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 Calculate required output: use of manufacturers bandback/application shorts
4.4	Calculate required output:
Calculate the quantity of pellets required for a specified area	 application rate achieved spreading width registration number of prime mover gear selected engine speed (rpm) vehicle forward speed vehicle wheel sizes and tyre pressure To include:

		the correct amount required for the specified area
5.1	Weigh the required quantity of pellets and add to the applicator	To include: 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
5.2	Demonstrate safe and accurate application procedures	Methods to achieve accurate application May include the following: tramlines wheelings crop rows marker poles GPS Procedure to refill applicator part way through application: 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 Demonstrate safe and accurate application procedures to include: 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
5.3	Carry out all activities avoiding risks to human health and the environment	 To include: 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
5.4	Complete a treatment record	Completion of the treatment record must be:
6.1	State how to recover and store surplus slug pellets and how to dispose of waste material	Recovering surplus pellets: 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 Storing surplus pellets: return to temporary mobile store return to fixed storage facility Waste packaging: packaging thoroughly emptied placed in secure storage until disposal collection by licensed waste disposal contractor
6.2	Explain how to clean and decontaminate the applicator and the prime mover	 May include: 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

6.3	Describe the storage requirements for the applicator	May include: refer to manufacturer's 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
		sunlight store in a secure area

Appendix 1 Practical table

Unit 242 Operating mounted or trailed granular pesticide applicators

All criteria must be achieved.

Activity number and description	Achieved
1.1 Describe the legal requirements relating to applying granular pesticides using mounted or trailed equipment	
1.2 Describe how to apply granular pesticides safely using mounted or trailed equipment following industry best practice	
2.1 Identify risks to the environment	
2.2 Explain how to minimize risks to the environment	
3.1 Read product information	
3.2 Interpret product information	
4.1 Identify applicator components and controls	
4.2 Carry out pre-use checks to the prime mover	
4.3 Carry out pre-use and operational checks to the applicator	
4.4 Calibrate the sprayer and record relevant data	
4.5 Calculate the quantity of granules required for a specified area	
5.1 Weigh the required quantity of granules and add to the applicator	
5.2 Demonstrate safe and accurate application procedures	
5.3 Carry out all activities avoiding risks to human health and the environment	
5.4 Complete a treatment record	
6.1 State how to recover and store surplus granules and how to dispose of waste material	
6.2 Explain how to clean and contaminate the applicator and the prime mover	
6.3 Describe the storage requirements for the applicator	

Unit 243 Operating mounted or trailed slug pellet applicators

All criteria must be achieved.

Activity number and description	Achieved
1.1 Describe the legal requirements relating to applying slug pellets using mounted or trailed equipment	
1.2 Describe how to apply slug pellets safely using mounted or trailed equipment following industry best practice	
2.1 Identify risks to the environment	
2.2 Explain how to minimize risks to the environment	
3.1 Read product information	
3.2 Interpret product information	
4.1 Identify the applicator components and controls	
4.2 Carry out pre-use checks to the prime mover	
4.3 Carry out pre-use and operational checks to the applicator	
4.4 Calibrate the applicator and record relevant data	
4.5 Calculate the quantity of granules required for a specified area	
5.1 Weigh the required quantity of pellets and add to the applicator	
5.2 Demonstrate safe and accurate application procedures	
5.3 Carry out all activities avoiding risks to human health and the environment	
5.4 Complete a treatment record	
6.1 State how to recover and store surplus slug pellets and how to dispose of waste material	
6.2 Explain how to clean and decontaminate the applicator and the prime mover	
6.3 Describe the storage requirements for the applicator	

Appendix 1 Sources of general information

The following documents contain essential information for centres delivering City & Guilds qualifications. To download the documents and to find other useful documents, go to **www.cityandguilds.com** or click on the links below:

Centre handbook: quality assurance standards

This document is for all approved centres and provides guidance to support their delivery of our qualifications. It includes information on:

- centre quality assurance criteria and monitoring activities
- · administration and assessment systems
- centre-facing support teams at City & Guilds/ILM
- centre quality assurance roles and responsibilities.

The Centre Handbook should be used to ensure compliance with the terms and conditions of the centre contract.

Centre assessment: quality assurance standards

Approved centres must have effective quality assurance systems to ensure optimum delivery and assessment of qualifications. Quality assurance includes initial centre approval, qualification approval and the centre's own internal procedures for monitoring quality. Centres are responsible for internal quality assurance and City & Guilds is responsible for external quality assurance. All external quality assurance processes reflect the minimum requirements for verified and moderated assessments, as detailed in the Centre Assessment Standards Scrutiny (CASS), section H2 of Ofqual's General Conditions. For more information on both CASS and City & Guilds Quality Assurance processes visit: the What is CASS? and Quality Assurance Standards documents on the City & Guilds website.

This document sets out the minimum common quality assurance requirements for our regulated and non-regulated qualifications that feature centre assessed components. Specific guidance will also be included in relevant qualification handbooks and/or assessment documentation.

It incorporates our expectations for centre internal quality assurance and the external quality assurance methods we use to ensure that assessment standards are met and upheld. It also details the range of sanctions that may be put in place when centres do not comply with our requirements, or actions that will be taken to align centre marking/assessment to required standards. Additionally, it provides detailed guidance on the secure and valid administration of centre-assessments.

Access arrangements: When and how applications need to be made to City & Guilds provides full details of the arrangements that may be made to facilitate access to assessments and qualifications for candidates who are eligible for adjustments in assessment.

The Centre document library also contains useful information on such things as:

- conducting examinations
- registering learners
- appeals and malpractice.

Useful contacts

Please visit the Contact us section of the City & Guilds website, Contact us

City & Guilds

For over 140 years, we have worked with people, organisations and economies to help them identify and develop the skills they need to thrive. We understand the life-changing link between skills development, social mobility, prosperity and success. Everything we do is focused on developing and delivering high-quality training, qualifications, assessments and credentials that lead to jobs and meet the changing needs of industry.

We partner with our customers to deliver work-based learning programmes that build competency to support better prospects for people, organisations and wider society. We create flexible learning pathways that support lifelong employability because we believe that people deserve the opportunity to (re)train and (re)learn again and again – gaining new skills at every stage of life, regardless of where they start.

The City & Guilds community of brands includes Gen2, ILM, Intertrain, Kineo and The Oxford Group.

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City & Guilds Giltspur House 5–6 Giltspur Street London EC1A 9DE

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