CITY & GUILDS LEVEL 2 AWARD IN THE SAFE APPLICATION OF PESTICIDES TO PLANT MATERIAL DURING A CONTINUOUS FLOW PROCESS (PA12) 601/5151/1



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 - 6 0	L2 Award in the Safe Application of Pesticides to Plant Material During a Continuous Flow Process (PA12)
Unit(s)	2 1 1	Applying Pesticides to Plant Material During a Continuous Flow Process (PA12) (K/505/7764)
Guided Learning Hours-(GLH)	2 1 1	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
1.2 November 2017		Qualification at a glance,
	Deleted QCF / Learning Time	Structure
		Throughout
1.3 April 2022	GLH & TQT clarified and highlighted	Qualification at a glance
	City 9 Cylinds address revised	Da 4
	City & Guilds address revised	Pg 4

City & Guilds Level 2 Award in the Safe Application of Pesticides to Plant Material during a Continuous Flow Process (PA12) 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 one compulsory unit:

Unit 211 (PA12) (Mandatory) (Credit Value 3)

> Outcome 1. Know the legislative and safety regulations relating to application equipment (Criteria 1.1 - 1.2) Outcome 2. Be able to assess the environmental factors relating to mixing and application (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 the equipment (Criteria 4.1 - 4.6) Be able to operate the equipment (Criteria 5.1 - 5.3) Outcome 5.

Outcome 6. Know how to carry out post-operational procedures (Criteria 6.1 – 6.3)

Candidates must successfully achieve all assessment activities in the above unit.

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

Approved Assessors will be subject to a regular visit by a Verifier at a time when assessments are being undertaken.

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:

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.

Not Met Does not satisfy the requirements of the assessment criteria, being unable to perform the practical task satisfactorily or safely or NM =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.

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 to 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 <u>may not</u> 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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Unit 211 - Applying Pesticides to Plant Material during a Continuous Flow Process (PA12)

			•			•		•				
Candidate A Name:			Date:		Start Time:	Dura	ation	1:				
Candidate B Name:		Date:		Start Time:	Duration:			n:				
Candidate	andidate C Name:		Date:		Start Time:	Dura	ration:					
Candidate	D Name:		Date:	Date: Start Time:				ո։				
CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE		-	SSESSMENT ACTIVITIES		CANDIDATE A B C E					
Unit 211 1.1 Unit 211	Describe the legal requirements relating to treating plant material with pesticide during a continuous flow process Describe how to apply pesticide during a	Candidate to describe two operator's obligations in terms of legal requirements Candidate to describe one operator safety regulation in	all req compl compl (Susta the op certific May include compl compl	juired guard lies with leg ly with The l ainable Use perator mus cation for th	Is are in place and equipment al requirements Plant Protection Products) Regulations 2012 t hold the appropriate e equipment they are using Met Not	9						
1.2	continuous flow process following industry best practice	terms of applying pesticide using a continuous flow process	be aware COSH require	HH/Risk Áss ements	st practice safety implications imposed sessment and comply with Met ✓ Not	thé						
Unit 211 2.1	Identify risks to the environment	Candidate to identify all relevant risks to the environment for the application site	 drains boreho non-ta housin public/ wind s aware 	courses coles argets ng /co-workers speed & dire eness of wo	ection rking in a confined space ic to the site]]			
	Explain how to minimise	Candidate to explain how	to Explanation	n to include	Met ✓ Not the following points:	Wet X	닏	ᆜ	\sqcup			
Unit 211 2.2	risks to the environment	minimise the risks identified in 2.1	 use of carefu containequipm check avoid 	f an approp al timing of a inment in ca ment	riate pesticide application ase of leakage from fixed ain application rate							
		Candidate to check and comment on wind speed a direction	and signs wind d	direction	ter at suitable height or visi	ible						
		Candidate to state the reason for minimising spray drift or off target application	people	eness of the e, wildlife, w	possible effects of drift to vater and the environment	crops,						
		Candidate to state five factors that affect spray drif	nozzlepressunozzledefect	er condition to type and so the type and so the height about tive applicat		Met X						

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	C/ A	AND B	DAT	E D
HOWBER	Read product information	The candidate is required to	The following to be tested:			•	
Unit 211		read and interpret the	product name				
3.1	Interpret product information	information on a product label and provide relevant information as requested by	active substance(s) (ingredient(s))				
Unit 211		the Assessor	Important information: • field of use				
3.2		Note to the Assessor: A	crop/target				
3.2		product label is required. It is	maximum individual dose				
		expected that the candidate will provide the product label	maximum total dose				
			maximum number of treatments				
		The label provided must be					_
		for a currently approved product and appropriate to	specific product precautions/warnings				
		the candidates normal work	operator protection				
		situation	environmental protection restrictions on use				
		Note to the Candidate	restrictions on use				
		(Assessor also to note): It is	Crop specific information:				
		acceptable for key information on the label to be	crop/target				
		highlighted for use during the	dose rate				
		assessment	water volume (if applicable)				
			• timing				
			Mixing and spraying:				
			filling				
			reduced volume applications (if applicable)				
			recommended nozzles				
			recommended pressure				
			spray quality				
			additional label information				
			compatibility				
	Identify application	Condidate to identify all	Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 211	Identify application equipment, components &	Candidate to identify all components and controls	May include: tank				
	controls	relating to the applicator	• lid				
4.1		being used for the assessment	• filters				
		assessment	• hoses				
			connections				
			seals				
			metering devices				
			mechanical/electrical controls				
			material feed system				
			conveying system				
			emergency stop control(s)				
			Met ✓ Not Met X				
11 11 044	Carry out pre-use checks	Candidate to part fill the	To include:				
Unit 211	to the equipment	applicator and check for satisfactory operation	 applicator checked for leaks under pressure (if applicable) 				
4.2		cameraciery operaner.	any problems identified to be rectified if within				
			operator's level of responsibility and ability				
			condition confirmed as suitable for operation				
		Identify and asset live the second					
		Identify and explain the use of two types of nozzle, one of	flat-fan – general coverage across wide conveyor				
		which could be that intended	cone – comprehensive treatment of				
i							
		for use	rolling/turning plant material				
		for use	rolling/turning plant material Met ✓ Not Met X				
	Adjust settings on the	for use Fit the required nozzle for					
Unit 211	Adjust settings on the equipment	Fit the required nozzle for use and select the correct	Met ✓ Not Met X				
	•	Fit the required nozzle for use and select the correct pressure. Check suitable	Met ✓ Not Met X To include:				
Unit 211 4.3	•	Fit the required nozzle for use and select the correct	Met ✓ Not Met X To include: • suitable nozzle selected				
	•	Fit the required nozzle for use and select the correct pressure. Check suitable	Met ✓ Not Met X To include: • suitable nozzle selected • nozzle fitted correctly				

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C	AND	IDA	ΓΕ
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Cont		Candidate to adjust settings/speed of the	May include: adjusting width of conveyed plant material				
		conveying system and	adjusting width or conveyed plant material adjusting speed of conveyed plant material				
Unit 211		position of the nozzles (if applicable)	adjusting speed of conveyed plant material adjusting height and lateral position of nozzles (if				
4.3		арріїсавіе)	applicable)				
			Met ✓ Not Met X				
	Calibrate the equipment	The candidate is required to	Calibration to include:				
Unit 211	and record relevant data	calibrate the equipment and	calculation of pesticide required				
4.4		record relevant data	calculation of water volume rate (if applicable)				
4.4		Note to the Assessor: Any	check water volume rate against product		_		
		method of calibration may be used	information recommendations				
		Candidate to record relevant calibration data	Calibration data may include: applicator used				
		Sampranori data	applicator usedconveyor speed				
			 nozzle(s) fitted (if applicable) 				
			pressure setting				
			application rate				
			flow rate				
			Met ✓ Not Met X				
	Calculate the quantities of	Candidate to calculate the	May include:				H
Unit 211	pesticide and water	quantities of pesticide and	amount of pesticide required for a specified				
4.5		water required for a specified	weight/volume/number				
4.5		weight/volume/number of plant material	amount of water required (if applicable)				
		,	Met ✓ Not Met X				
	Measure or weigh the	Candidate to measure or	May include:				
Unit 211	required quantities and add	weigh the appropriate	correct selection and use of PPE/RPE (as				
4.6	to the applicator as appropriate	quantities of pesticide and water (if applicable) and add	required by the product label, COSHH/Risk Assessment)				
4.0		to the tank	fill following product recommendations and				
		Note: This may be a	approved procedures				
		simulated pesticide	accurate measurement of water				
		product	accurate measurement of pesticide				
			avoidance of spillage				
			Met ✓ Not Met X				
Unit 211	Demonstrate safe and	The candidate is required to	May include:				
Unit 211	accurate application procedures	treat the weight/volume/number	maintaining continuous flow of plant material				
5.1	,	specified in 4.5	accurate placement/distribution of pesticide				
		demonstrating safe and accurate application	 avoidance of splashing/contamination maintaining correct temperature (if applicable) 				
		procedures					
	0 1 1 1 1 1	N 4 4 4 A	Met ✓ Not Met X	Ш	Ш	Ш	Ш
Unit 211	Carry out all activities protecting human health	Note to the Assessor: Assessor to be satisfied that	To include: • prevention of personal injury and contamination				
	and the environment	the candidate has carried out	through correct selection and use of PPE/RPE (as				
5.2		all activities protecting human health and the	required by the product information, COSHH/Risk		_		
		environment	Assessment) • prevention of public / bystander contamination				
			prevention of public / bystander contamination safe filling procedure				
			avoidance of off target application				
			avoidance of overdosing plant material				
			Met ✓ Not Met X				
	Complete a treatment	The candidate is required to	Completion of the treatment record must be:				屵
Unit 211	record	complete a treatment record	accurate				
. .		Note to the Assessment	legible (if handwritten)				
5.3		Note to the Assessor: the treatment record must be	,				
		approved or if necessary	Met ✓ Not Met X	Ш	Ш	╚	Ш
		supplied by the Assessor					

CRITERIA	ASSESSMENT	ASSESSOR	ASSESSMENT	C		IDA	ΓΕ
NUMBER	CRITERIA	GUIDANCE	ACTIVITIES	Α	В	С	D
Unit 211	Explain how to manage	Candidate to explain one	Explanation may include:				
Unit 211	surplus pesticide and dispose of waste material	method of dealing with surplus concentrate pesticide	return to temporary mobile store				
6.1	dispose of waste material	Sarpius concentrate pesticiae	return to fixed store				
0.1		Candidate to explain one	Containers:				
		method of dealing with waste containers and packaging	triple rinsed (if applicable)		П		
		containers and packaging	placed in secure storage until disposal				
			returned to supplier				
			collected by a licensed waste disposal contractor		Ιп		
			collected by a licensed waste disposal contractor				
			Packaging:				
			thoroughly emptied				
			placed in secure storage until disposal				
			collected by a licensed waste disposal contractor				
		Candidate to explain one	Explanation may include:				
		method of dealing with	 use on another approved target 				
		surplus dilute pesticides	 treated by specialist treatment facility on site (e.g. 				
			a lined bio bed)				
			collected by a licensed waste disposal contractor				
			Met ✓ Not Met X				
	Explain how to clean and	Candidate to explain what	Explanation to include at least four of the following				
Unit 211	decontaminate the	factors need to be considered	points:				
	applicator	when cleaning the applicator	select and use correct PPE/RPE				
6.2			selection of an appropriate site for cleaning the	_	_		
			sprayer/applicator				
			 triple rinse the applicator following product information recommendations (if applicable) 				
			through flushing of system (if applicable)				
			cleaning of conveyor system				
			safe disposal of contaminated washings in an				
			appropriate manner following good practice				
			safe procedures followed				
			Met ✓ Not Met X				
	Describe the storage	Candidate to describe three	May include:				
Unit 211	requirements for the	factors to consider prior to	de-pressurisation				
	applicator	storing the applicator	ensure the sprayer/applicator is clean and dry				
6.3			inspect for wear or damage				
			repair or notify supervisor if not within operators				
			level of responsibility and ability				
			lubricate if required				
			frost protection measures implemented				
			store in a secure area				
			store under cover and out of direct sunlight				
			Met ✓ Not Met X				
			mot / Not mot X				

Summary	of.	Assessment	(Tha	Accacent	ic to	complete	tho	following	20	annronriato
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Candidate A	Candidate has met all of the assessment criteria	Tick	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓			
	Signed:	Date:					
Candidate B	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓			
	Signed:	Date:					
Candidate C	Candidate has met all of the assessment criteria	Tick	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓			
	Signed:	Date:					
Candidate D	Candidate has met all of the assessment criteria	Tick ✓	The Candidate has not met all of the assessment criteria; (state reason(s))	Tick ✓			
	Signed:	Date:					
For (Inte	use by Internal Verifier ONLY if the assessment process was in ernal Verifier to complete ONE of the boxes below)	ternally	verified				
I ob	I observed an assessment process taking place and I am satisfied that the assessment was conducted in line with the qualification requirements.						
I ob	served an assessment process taking place. The following were r	noted as	s areas of concern.	Tick ✓			
Sig	ned:	Date:		ı			