

City & Guilds NPTC Level 2 Award in The Safe Dipping of Plant Material in Pesticides (PA10) (0216-58)

Version 1.1 (February 2024)

Assessment Pack – Candidate Version

Version and date	Change detail	Section
1.0 February 2024	First version	All
1.1 February 2025	Updated Unit Numbers 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 272 Dipping plant materials in pesticides covering the following learning outcomes:

1. Know the legislative and safety regulations relating to dipping plant material in pesticide
2. Be able to assess the environmental factors relating to mixing and application
3. Be able to read and interpret product information
4. Be able to prepare the equipment
5. Be able to use the 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.

Record of assessment (ROA)

A prepopulated record of assessment must be completed by the assessor following an assessment. The number of outcomes is listed above, these must be ticked into the relevant met or not met sections of the ROA.

ARAS Forms

An Assessment Result Advice Slip (ARAS form) must be completed by the assessor following an assessment. The ARAS is not a certificate but, based on the evidence of the candidate's performance, is a recommendation to City & Guilds that the candidate is either met or not met the assessment criteria. All feedback is to be recorded by the assessor on the feedback section of the ARAS form.

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 272 Dipping plant materials in pesticides

Activity number and description from check list		Assessment criteria
1.1	Describe the legal requirements relating to dipping plant material in pesticide	<p>May include:</p> <ul style="list-style-type: none"> all required guards are in place and equipment complies with legal requirements 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 dip plant material in pesticides safely following industry best practice	<p>May include:</p> <ul style="list-style-type: none"> comply with relevant Pesticide Codes of Practice adopt industry best practice be aware of any safety implications imposed by Risk/COSHH Assessment and comply with the requirements be aware of the increased risk of applying pesticides in a confined area (if applicable)
2.1	Identify risks to the environment	<p>May include:</p> <ul style="list-style-type: none"> water courses drains boreholes wildlife non-targets sensitive crops/areas housing public/bystanders/co-workers other risks specific to the site
2.2	Explain how to minimise risks to the environment	<p>Explanation to include the following points:</p> <ul style="list-style-type: none"> use of an appropriate pesticide careful timing of application check and maintain application rate display warning signs integrity of the structure (if applicable)

		<ul style="list-style-type: none"> inform neighbours before application <p>Check and comment on wind speed:</p> <ul style="list-style-type: none"> use of anemometer at suitable height or visible signs wind direction effect of wind suction <p>Minimising off target application</p> <ul style="list-style-type: none"> avoidance of contamination to people and the environment
3.1 - 3.2	<p>Read product information</p> <p>Interpret product information</p>	<p>The following to be provided if applicable:</p> <ul style="list-style-type: none"> product name active substance(s) (ingredient(s)) <p>Important information:</p> <ul style="list-style-type: none"> field of use crop/target maximum individual dose maximum total dose maximum number of treatments specific product precautions/warnings reduced volume applications (if applicable) operator protection environmental protection restrictions on use <p>Target specific information:</p> <ul style="list-style-type: none"> crop/target dose rate water volume timing <p>Mixing and application</p> <ul style="list-style-type: none"> filling additional label information compatibility
4.1	Carry out pre use checks to the equipment	<p>May include:</p> <ul style="list-style-type: none"> read instructions identify components including safety devices contamination safety status remedial action if appropriate clear floor space access to controls suitability of tank suitability of draining area condition of pipe work/filling devices valves free and correctly positioned condition of filters

4.2	Adjust settings on the equipment if appropriate	May include: <ul style="list-style-type: none"> • temperature of dip • filling device
4.3	Calculate the quantities of pesticide and water required	To include: <ul style="list-style-type: none"> • amount of water required • amount of pesticide required
4.4	Measure the required quantities of pesticide and water and add to the dipping tank	To include: <ul style="list-style-type: none"> • correct selection and use of PPE (as required by the product label and/or COSHH Assessment) • observance of pesticide manufacturers • instructions for mixing sequence and agitation (or other recommended method) • suitable site selected • clean water supply • accurate measurement of water • accurate measurement of pesticide • use of filling device (if fitted) • avoidance of spillage
5.1	Demonstrate safe and accurate dipping procedures	May include: <ul style="list-style-type: none"> • safe lifting/loading • avoid splashing/contamination • correct immersion depth and time • maintain temperature (if appropriate) Factors to consider when topping up the pesticide solution <ul style="list-style-type: none"> • correct concentration • mixing procedure • check temperature (if applicable) • avoid splash/spillage
5.2	Carry 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 label and/or COSHH/Risk Assessment) • ventilation (if appropriate) • safe exit route identified and used • prevention of public/bystander contamination • safe filling procedure • avoidance of off-target contamination • avoidance of overdosing crop/target/plant • material

5.3	Complete a treatment record	<p>Completion of the treatment record must be:</p> <ul style="list-style-type: none"> • accurate • legible (if handwritten)
6.1	Explain how to manage surplus pesticide and dispose of waste materials	<p>Surplus concentrate pesticide</p> <ul style="list-style-type: none"> • return to temporary mobile store • return to fixed store <p>Containers:</p> <ul style="list-style-type: none"> • triple rinsed • secure storage until disposal • return to supplier • collected by licensed waste disposal contractor <p>Packaging:</p> <ul style="list-style-type: none"> • thoroughly emptied • secure storage until disposal • collected by licensed waste disposal contractor <p>Surplus dilute pesticide</p> <ul style="list-style-type: none"> • use on another approved crop/target/plant material • treated by specialist treatment facility on site (e.g. a lined bio bed) • collected by licensed waste disposal contractor
6.2	Explain how to clean and decontaminate the equipment	<p>May include:</p> <ul style="list-style-type: none"> • safe disposal of sludge • washing procedure • safe disposal of tank washings • frequency of cleaning
6.3	Describe the storage requirements for the equipment	<p>May include:</p> <ul style="list-style-type: none"> • equipment clean • tank dry • frost protection measures implemented • hoses drained • inspect for wear and/or damage
6.4	Explain how to store the treated material	<p>May include:</p> <ul style="list-style-type: none"> • avoid splashing/contamination • safe lifting procedure • suitable draining area • correct draining time • suitable storage site • correctly labelled

Appendix 1 Practical table

Unit 272 Dipping plant materials in pesticides

All criteria must be achieved.

Activity number and description	Achieved
1.1 Describe the legal requirements relating to dipping plant material in pesticide	
1.2 Describe how to dip plant material in pesticides safely following industry best practice	
2.1 Identify risks to the environment	
2.2 Explain how to minimise risks to the environment	
3.1 Read product information	
3.2 Interpret product information	
4.1 Carry out pre use checks to the equipment	
4.2 Adjust settings on the equipment if appropriate	
4.3 Calculate the quantities of pesticide and water required	
4.4 Measure the required quantities of pesticide and water and add to the dipping tank	
5.1 Demonstrate safe and accurate dipping procedures	
5.2 Carry out all activities protecting human health and the environment	
5.3 Complete a treatment record	
6.1 Explain how to manage surplus pesticide and dispose of waste materials	
6.2 Explain how to clean and decontaminate the equipment	
6.3 Describe the storage requirements for the equipment	
6.4 Explain how to store the treated material	

Appendix 2 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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