



City & Guilds NPTC Level 2 Award in the Safe Treatment of Seeds with Pesticides (PA11) (601/5150/X)

Version 1.0 (February 2024)

Assessment Pack – Centre and Candidate Version

Version and date	Change detail	Section
1.0 February 2024	First version	All

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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:

201 Treating of Seeds with Pesticides covering the following learning outcomes:

1. Know the legislative and safety regulations relating to application equipment
2. Be able to assess the environmental factors relating to application
3. Be able to read and interpret product information
4. Be able to prepare the treatment 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

201 Treating seeds with pesticides:

Activity number and description from check list		Assessment criteria
1.1	Describe the legal requirements relating to treating seeds with 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 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 treat seeds with pesticides safely following industry best practice	<p>May include:</p> <ul style="list-style-type: none"> comply with Pesticide Codes of Practice adopt industry best practice including the European Seed Treatment Assurance scheme (ESTA) be aware of any safety implications imposed by COSHH/Risk Assessment and comply with the requirements <p>Selecting a site for mobile plant</p>

		<ul style="list-style-type: none"> • level site • ground conditions • access for support vehicles/equipment
2.1	Identify risks to the environment	<p>May include:</p> <ul style="list-style-type: none"> • water courses • drains • boreholes • wildlife/livestock/domestic animals • hedgerows • housing • public access/co-workers • wind speed & direction • 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 • check and maintain application rate • avoid 'exhaust' drift • erect warning signs • notify appropriate neighbours/co-workers • check wind speed & direction
3.1 - 3.2	<p>Read product information</p> <p>Interpret product information</p>	<p>The following to be tested:</p> <ul style="list-style-type: none"> • product name • active ingredient(s) <p>Important information:</p> <ul style="list-style-type: none"> • field of use • crop/variety • maximum individual dose • specific product precautions/warnings • operator protection • environmental protection • restrictions on use <p>Crop specific information:</p> <ul style="list-style-type: none"> • crop • dose rate • water addition (if applicable)
4.1	Identify the treatment equipment components & controls	<p>May include:</p> <ul style="list-style-type: none"> • pesticide containers • pumps • filters • hoses • connections • metering devices • batch/flow controls • mixer/incorporation system

		<ul style="list-style-type: none"> engineering controls to minimise contamination control panel (including isolation controls)
4.2	Carry out pre-use checks to the equipment	<p>May include:</p> <ul style="list-style-type: none"> guards in place and in good condition visual inspection of pipe work checking of electrical safety devices (micro- switches) free rotation of mixing bowls/application discs free adjustment of metering devices exhaust system functioning correctly testing function of all control panel switches/warning lights
4.3	Adjust settings on the equipment	<p>May include:</p> <ul style="list-style-type: none"> adjusting metering devices setting of timers settings of pressure/vacuum setting equipment into test mode
4.4	Calibrate the equipment and record relevant data	<p>May include:</p> <ul style="list-style-type: none"> setting dose rate setting batch or flow rate running equipment in test mode (Engineer's) settings do not need proving) proving of correct dose <p>Calibration data</p> <ul style="list-style-type: none"> pesticide product being used crop/variety being treated batch timings metering device setting(s) flow rate
4.5	Calculate the quantities of pesticide and water required	<p>May include:</p> <ul style="list-style-type: none"> amount of pesticide required for stated quantity of seed amount of water required for stated quantity of seed
4.6	Measure or weigh the required quantities and add to the treatment equipment	<p>To include:</p> <ul style="list-style-type: none"> correct selection and use of PPE/RPE (as required by the product label and/or COSHH/Risk Assessment) observance of pesticide manufacturers instructions for mixing sequence suitable site selected clean water supply accurate measurement of water

		<ul style="list-style-type: none"> • accurate measurement of pesticide • use of filling device (if fitted) • avoidance of spillage
5.1	Demonstrate safe & accurate treatment procedures	<p>May include:</p> <ul style="list-style-type: none"> • operate controls to apply the product accurately • correct use of PPE/RPE • safe handling of treated seed • avoidance of spillage • maintain application rate appropriate to seed variety • correct labelling
5.2	Carry out all activities protecting human health & the environment	<p>To include:</p> <ul style="list-style-type: none"> • prevention of personal injury and contamination through correct selection and use of access equipment, PPE/RPE (as required by the product information and/or COSHH/Risk Assessment) • prevention of public/co-worker contamination • safe filling procedure • avoidance of over dosing/under dosing seed
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 material	<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 (if applicable) • placed in secure storage until disposal • returned to supplier • collected by a licensed waste disposal contractor <p>Packaging:</p> <ul style="list-style-type: none"> • thoroughly emptied • placed in secure storage until disposal • collected by a licensed waste disposal contractor <p>Surplus dilute pesticide</p> <ul style="list-style-type: none"> • use on another approved seed • treated by specialist treatment facility on site (e.g. a lined bio bed) • collected by a licensed waste disposal contractor

6.2	Explain how to clean and decontaminate the treatment equipment	<p>May include:</p> <ul style="list-style-type: none"> • when cleaning should take place • selection and use of correct PPE • method(s) of de-contamination • contaminated clearings suitably packaged & labelled • thorough flushing of pipe work • frequency of cleaning • dealing with spillages • safe procedures followed
6.3	Describe the storage requirements for the seed treatment equipment	<p>May include:</p> <ul style="list-style-type: none"> • ensuring equipment is made mechanically safe • ensuring equipment is electrically isolated • frost protection measures implemented

Appendix 1 Practical table

201 Treating seeds with pesticides

All criteria must be achieved.

Activity number and description	Achieved
1.1 Describe the legal requirements relating to treating seeds with pesticide	
1.2 Describe how to treat seeds with 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 Identify the treatment equipment components & controls	
4.2 Carry out pre-use checks to the equipment	
4.3 Adjust settings on the equipment	
4.4 Calibrate the equipment and record relevant data	
4.5 Calculate the quantities of pesticide and water required	
4.6 Measure or weigh the required quantities and add to the treatment equipment	
5.1 Demonstrate safe & accurate treatment procedures	
5.2 Carry out all activities protecting human health & the environment	
5.3 Complete a treatment record	
6.1 Explain how to manage surplus pesticide and dispose of waste material	
6.2 Explain how to clean and decontaminate the treatment equipment	
6.3 Describe the storage requirements for the seed treatment equipment	

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 the **Centre Document Library** on www.cityandguilds.com or click on the links below:

Quality Assurance Standards: Centre Handbook

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.

Quality Assurance Standards: Centre Assessment

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

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City & Guilds Group

The City & Guilds Group is a leader in global skills development. Our purpose is to help people, organisations and economies develop their skills for growth. We work with education providers, employers and governments in over 100 countries across the world to help people, businesses and economies grow by shaping skills systems and supporting skills development.

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