

CITY & GUILDS NPTC LEVEL 3 AWARD IN RESPONSIBLE PESTICIDE MANAGEMENT (PA-RPM) 601/5318/0



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 3	L3 Award in Responsible Pesticide Management (PA-RPM)
Unit(s)	2 7 1	Managing the Health, Safety and Welfare of Operators Applying Pesticides (D/505/8037)
	2 7 2	Minimising the Environmental Impact of Pesticide Operations (H/505/8041)
	2 7 3	The Selection, Storage and Effective use of Pesticides (A/505/8045)
	2 7 4	Integrated Pest Management (F/505/8046)
Guided Learning Hours (GLH)	2 7 1	GLH 26 (Credit Value 3)
	2 7 2	GLH 26 (Credit Value 3)
	2 7 3	GLH 26 (Credit Value 3)
	2 7 4	GLH 26 (Credit Value 3)
Total Qualification Time (TQT)		120 Hours
Recommended Assessment Duration		2.5 – 4 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	Added TQT details Deleted QCF / Learning Time	Qualification at a glance, Structure Throughout

City & Guilds NPTC Level 3 Award in Responsible Pesticide Management (PA-RPM) 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 is divided in to **four mandatory** units:

Unit 271	(Mandatory)	(Credit Value 3)	(Print pages 5 – 8 plus 21)
Outcome 1.	Know the legislative requirements and codes of practice relating to managing or supervising operators applying pesticides (Criteria 1.1 – 1.3)		
Outcome 2.	Know organisational procedures for managing or supervising pesticide operations (Criteria 2.1 – 2.4)		
Outcome 3.	Be able to carry out a Risk Assessment for a specified operation (Criteria 3.1 – 3.4)		
Outcome 4.	Be able to interpret product information to ensure operator safety (Criteria 4.1 – 4.2)		
Outcome 5.	Be able to carry out a COSHH Assessment for a specified pesticide product (Criteria 5.1 – 5.3)		
Outcome 6.	Be able to complete post operation records (Criteria 6.1 – 6.1)		
Unit 272	(Mandatory)	(Credit Value 3)	(Print pages 9 – 11 plus 21)
Outcome 1.	Know the sources and possible effects of pesticide pollution (Criteria 1.1 – 1.3)		
Outcome 2.	Know how to minimise the impact of pesticides on the environment (Criteria 2.1 – 2.5)		
Outcome 3.	Be able to identify, assess and control risks to the environment (Criteria 3.1 – 3.3)		
Outcome 4.	Know how to identify and effectively deal with an incident of environmental pollution (Criteria 4.1 – 4.3)		
Unit 273	(Mandatory)	(Credit Value 3)	(Print pages 12 – 16 plus 21)
Outcome 1.	Know how pesticides work (Criteria 1.1 – 1.6)		
Outcome 2.	Understand how to store and transport pesticides safely (Criteria 2.1 – 2.3)		
Outcome 3.	Be able to plan for the effective application of pesticides (Criteria 3.1 – 3.4)		
Outcome 4.	Understand application equipment and procedures for applying pesticides (Criteria 4.1 – 4.2)		
Outcome 5.	Understand how to determine if a pesticide application has been successful (Criteria 5.1 – 5.3)		
Unit 274	(Mandatory)	(Credit Value 3)	(Print pages 17 – 20 plus 21)
Outcome 1.	Understand the principles of Integrated Pest Management (Criteria 1.1 – 1.4)		
Outcome 2.	Know the methods of Integrated Pest Management and when it is appropriate to use them (Criteria 2.1 – 2.3)		
Outcome 3.	Be able to plan for the effective implementation of an Integrated Pest Management programme (Criteria 3.1 – 3.4)		
Outcome 4.	Understand the financial impact of Implementing an Integrated Pest Management solution (Criteria 4.1 – 4.1)		
Outcome 5.	Be able to determine the effectiveness of an Integrated Pest Management solution (Criteria 5.1 – 5.3)		

Candidates must successfully achieve **all** assessment activities in all the above units.

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.

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.

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
Materials are available to enable assessment of all the activities to take place		Ensuring that the 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	
	To bring a product label and Material Safety Data Sheet (MSDS) appropriate for the assessment	To ensure that the product label and Material Safety Data Sheet (MSDS) 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.

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

The candidate may refer to training materials or safety publications during the assessment. But they **may not** refer to the Qualification Guidance Document **during the assessment**.

Questions should be related to the background or employment aspirations of the candidate.

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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City & Guilds is a registered charity established to promote education and training

Unit 271 – Managing the Health, Safety and Welfare of Operators Applying Pesticides

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 271 1.1	Identify a Manager's/ Supervisor's responsibility under current legislation	Candidate to identify a Manager's/Supervisor's responsibilities under current legislation	To include: <ul style="list-style-type: none"> provision of a safe working environment and welfare facilities to assess the risks to the health and safety of anyone who may be affected by the workplace activities adequate arrangements must be in place for the planning, organisation, control, monitoring and review of the safety measures that follow from these assessments provide adequate information, instruction, training and supervision for operators <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 1.2	Identify a Manager's/ Supervisor's responsibility under current Codes of Practice	Candidate to identify two Manager's/Supervisor's responsibilities under current Codes of Practice	To include: <ul style="list-style-type: none"> be familiar with the requirements of the current codes of practice to ensure operators are completing the necessary records to ensure operators are kept up to date with legislation and best practice to minimise the risks associated with the use of pesticides <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 1.3	Explain the training and certification requirements for operators	Candidate to explain the training requirements for operators Candidate to explain the certification requirements for operators Candidate to state what certification is required for three specified types of application machinery (as determined by the Assessor)	To include: <ul style="list-style-type: none"> by law, everyone who uses pesticides professionally must have received adequate training in using pesticides safely and be skilled in the job they are carrying out To include: <ul style="list-style-type: none"> all operators must hold the foundation module (PA1) and the relevant application module (e.g. PA2) for the equipment they intend to operate May include: <ul style="list-style-type: none"> horizontal boom sprayer – PA2 variable geometry boom or broadcast sprayer – PA3 granular pesticide applicator – PA4G slug pellet applicator – PA4S boat mounted applicator – PA5 hand held applicator – PA6 aircraft mounted applicator – PA7 mixing/loading – PA8 fogging, misting and smoking equipment – PA9 dipping equipment – PA10 seed treatment equipment – PA11 application to material as a continuous or batch process PA12 sub-surface applicators – PA13 other special equipment categories (not listed above) – PA(SC) <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 271 2.1	Summarise the duties of the Manager/Supervisor in respect of pesticide operations	Candidate to summarise four duties of the Manager/Supervisor in respect of pesticide operations	<p>May include:</p> <ul style="list-style-type: none"> completion and communication of risk assessments completion and communication of COSHH Assessments provision of Personal Protective Equipment (PPE) the provision of suitable equipment ensuring the correct use of equipment provision of first aid training and facilities accident and incident reporting communicating emergency procedures to all staff dealing with breaches of Health and Safety legislation <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 2.2	Explain the importance of having safe systems and working practices	Candidate to explain three reasons for having safe systems and working practices	<p>May include:</p> <ul style="list-style-type: none"> to protect operators from pesticide contamination to protect other staff/visitors/bystanders from pesticide contamination to protect operators from injury whilst operating application equipment to protect other staff/visitors/bystanders from injury by application equipment <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 2.3	Summarise staff welfare requirements	Candidate to summarise three staff welfare requirements	<p>To include:</p> <ul style="list-style-type: none"> clean, well-ventilated toilets wash basins with hot and cold (or warm) running water, soap and towels (or a hand dryer) portable toilet and washing facilities for workers working away from base changing facilities drinking water somewhere to rest and eat meals <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 2.4	Specify the contents of an emergency/contingency plan	<p>Candidate to specify six site/location details required on an emergency/contingency plan</p> <p>Candidate to specify six contacts required on an emergency/contingency plan</p>	<p>To include:</p> <ul style="list-style-type: none"> emergency assembly point site contact details (name and telephone number) site address (including postcode) grid reference <p>Location of:</p> <ul style="list-style-type: none"> fire extinguishers eye wash station first aid box washing facilities mains water supply gas isolation point any hazardous substances <p>To include:</p> <ul style="list-style-type: none"> Police/Fire/Ambulance appropriate Environmental Agency medical advice line e.g. 111 trained first aider local Doctor nearest hospital Accident and Emergency department Health and Safety Executive (HSE) electricity supplier gas supplier water supplier <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 271 3.1	Explain the five steps involved in risk assessment	Candidate to explain the five steps of risk assessment	To include: <ul style="list-style-type: none"> identify the potential hazards decide who may be harmed and how evaluate the risks and decide on precautions record findings and implement them review the assessment and update if necessary <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 3.2	Identify the potential hazards associated with pesticide application	Candidate to identify five potential health and safety hazards for a specified pesticide application operation, as determined by the Assessor	May include: <ul style="list-style-type: none"> noise fluids under pressure electrocution fire slips, trips and falls weather conditions contact with moving parts of machinery crushed or trapped by machinery or vehicles contact with hazardous substances vehicles or machinery overturning loss of control of machine or vehicle working in areas with public or employee access travel or working on public rights of way bites, stings and allergic reactions environmental hazards <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 3.3 3.4	Assess the risk to operators for a specified operation Implement control measures for a specified operation	Candidate to assess the risks to operators and implement control measures for the operation specified in 3.2 Note to Assessor: The candidate may complete a site-specific Risk Assessment using any suitable template approved or if necessary supplied by the Assessor	To include: <ul style="list-style-type: none"> completion of a site-specific Risk Assessment hazards identified risks assessed control measures implemented record completed (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 271 4.1	Read and interpret a product label and the Material Safety Data Sheet (MSDS) for a specified product	Candidate is required to read the label and MSDS (Material Safety Data Sheet) and provide the information requested by the Assessor Note to the Assessor: The label and MSDS must be approved by the Assessor and appropriate to the candidates normal work situation. If necessary supplied by the Assessor It is not acceptable for the candidate to highlight key information on the label prior to the assessment or use it during the assessment	The following to be provided: <ul style="list-style-type: none"> product name active substance(s) (ingredient(s)) operator protection storage and disposal medical advice exclusion times hazards identification potential health effects first aid measures fire fighting measures accidental release measures handling and storage exposure controls/personal protection physical and chemical properties stability and reactivity disposal considerations transport information other information specific to product <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 271 4.2	Review the requirements to ensure operator safety	Candidate to review the requirements from the label and MSDS to ensure operator safety	<p>May include:</p> <ul style="list-style-type: none"> operator protection – selection of suitable PPE storage – recommended storage facilities in place disposal – recommended disposal methods exclusion times – for humans potential health effects – operators made aware of symptoms first aid measures – actions/facilities fire fighting measures – required equipment/facilities transport information – adequate transporting facilities <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 5.1	Explain the hierarchy of control measures relating to COSHH	<p>Candidate to list, in order, the hierarchy of control measures relating to COSHH</p> <p>Candidate to explain each control measure</p>	<p>To include:</p> <ul style="list-style-type: none"> elimination substitution technical/engineering work method/operation PPE <p>To include:</p> <ul style="list-style-type: none"> elimination – the substance is not used substitution – a safer alternative is selected (e.g. one that is less harmful to the operator/environment) technical/engineering – the use of engineering controls (e.g. closed tractor cab) work method/ operation – how and when the operation is carried out PPE – final level of protection for the operator <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 271 5.2 5.3	<p>Identify the appropriate information required to complete a COSHH Assessment</p> <p>Complete a COSHH Assessment</p>	<p>Candidate to identify all the information required to complete a COSHH Assessment</p> <p>Candidate to complete a COSHH Assessment for a specified operation, using a specified product as determined by the Assessor</p>	<p>To include:</p> <ul style="list-style-type: none"> mixing and application sites name of person completing COSHH Assessment date of assessment expiry date/review date of assessment product name availability of MSDS ingredients/substance(s) maximum exposure time controls recommended controls already in place decision, safe to use? <p>Completion of the COSHH Assessment must be:</p> <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 271 6.1	Complete the records required to comply with legislation and industry best practice	<p>Candidate to complete an inspection record for the control measures using information supplied by the Assessor</p> <p>Note to Assessor: The candidate may complete an inspection record using any suitable template approved or if necessary supplied by the Assessor</p>	<p>Completion of record must be:</p> <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 272 – Minimising the Environmental Impact of Pesticide Operations

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 272 1.1	Identify possible sources of pesticide pollution	Candidate to identify four possible sources of pesticide pollution	May include: <ul style="list-style-type: none"> pesticide mixing and filling sites pesticide storage areas transporting pesticides/equipment faulty/damaged application equipment off target application run-off from hard surfaces application during inappropriate weather conditions 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 1.2	Explain how possible sources of pollution can occur	Candidate to explain how each possible source of pollution identified in 1.1 can occur	May include: <ul style="list-style-type: none"> spillage during mixing and/or filling operations leakage of pesticides from inadequate storage facilities accidental damage to containers during transportation leaking pipe work during filling/application application off target drift onto non target species run-off from hard surfaces into drains/watercourses drift, leaching and run-off from application during inappropriate weather conditions 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 1.3	Describe the possible effects of pollution	Candidate to describe the possible effects of the pollution identified in 1.2	May include: <ul style="list-style-type: none"> pollution of air pollution of soil pollution of water destruction of habitats harmful effects on species impact on human health 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Met ✓ Not Met X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 2.1	Identify specially designated areas and protected species that are potentially at risk from pesticide operations	Candidate to identify three specially designated areas that are potentially at risk from pesticide operations Candidate to name the Act that details species that are at possible risk from pesticide operations Candidate to name the 'list' that details species that are potentially at risk from pesticide operations Candidate to name five species of flora or fauna that are potentially at risk from pesticide operations	May include: <ul style="list-style-type: none"> Local Nature Reserves (LNR) Marine Nature Reserves (MNR) National Nature Reserves (NNR) Sites of Special Scientific Interest (SSSI) Special Areas of Conservation (SAC) Special Protection Areas (SPA) the Wildlife and Countryside Act 1981 the list of European Protected Species any suitable answers from either the Act or the 'list' 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Met ✓ Not Met X	<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 272 2.2	Describe how to plan pesticide operations to minimise the impact on the environment	Candidate to describe three considerations when planning pesticide operations to minimise the impact on the environment	<p>May include:</p> <ul style="list-style-type: none"> • assess possible negative effects of pesticide operation (Environmental Risk Assessment) • always use products that are have the lowest impact on the environment • use lowest effective dose rates of pesticide • implement suitable methods to protect wildlife and the environment • only apply pesticides during suitable weather conditions • time of day e.g. late evening to protect bees • dispose of pesticides according to best practice guidelines <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 2.3	Identify who should be informed before pesticide operations are carried out	Candidate to identify three examples of who should be informed before pesticide operations are carried out	<p>May include:</p> <ul style="list-style-type: none"> • neighbours • local beekeeper liaison officer • employees • visitors • appropriate environmental agency approval (application to water) • local school; and • anyone else who may be affected <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 2.4	Summarise industry best practice relating to minimising the impact of pesticides on the environment	Candidate to summarise four examples of industry best practice relating to minimising the impact of pesticides on the environment	<p>May include:</p> <ul style="list-style-type: none"> • follow Pesticide Codes of Practice • adopt industry best practice • comply with product Environmental Information Sheet (EIS) • completion of a Crop Protection Management Plan • creation of risk maps to highlight areas at risk from pesticide operations • use of Integrated Pest Management (IPM) control methods • regular testing of application equipment e.g. NSTS • appropriate training for operators of pesticide application equipment • refresher training for operators of pesticide application equipment • CPD scheme membership e.g. NRoSO, NAsOR • always comply with buffer zone and Local Environmental Risk Assessment for Pesticides (LERAP) requirements near watercourses <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 2.5	Specify the requirements of an emergency action plan which could be implemented should environmental pollution occur	<p>Candidate to specify two emergency contact details relating to environmental pollution that should appear on an emergency action plan</p> <p>Candidate to specify two pieces of essential information that should appear on an emergency action plan</p>	<p>May include:</p> <ul style="list-style-type: none"> • appropriate environmental agency • Wildlife Incident Investigation Scheme (WIIS) • water supply company • local environmental health officer <p>May include:</p> <ul style="list-style-type: none"> • site location (grid reference/postcode) • location of spill response equipment • location of surface water drains • location of foul water drains <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 272 3.1	Identify risks to the environment from pesticides operations for a specified site	Candidate to identify all risks to the environment from pesticide operations for a specified site	May include: <ul style="list-style-type: none"> ground conditions hard surfaces topography water courses environmental margins/strips/areas drains boreholes wildlife non-target plants sensitive crops/areas hedgerows housing public access 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 272 3.2	Assess the potential impact of the risks identified for a specified site	Candidate to assess the potential impact of the risks identified in 3.1	May include: <ul style="list-style-type: none"> damage to soil structure through use of machinery run-off from hard surfaces contamination of watercourse through spray drift/direct application destruction of habitats through spray drift/direct application harm to wildlife through spray drift/direct application contamination of drinking water supplies contamination of public <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 3.3	Develop a plan to control the risks to the environment for a specified site	Candidate to develop a plan to control the risks identified in 3.1 The plan should include the following: <ul style="list-style-type: none"> identified risk potential impact of risk control measures <p>Note to the Assessor: This may be either a written plan or verbally assessed</p>	May include: <ul style="list-style-type: none"> use an appropriate pesticide at the recommended dose rate careful timing of application ensure equipment is calibrated avoidance of off target application observance of buffer zones complete or comply with a LERAP (if appropriate) inform neighbours erect warning signs implementation of exclusion zones for pesticide operations <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 4.1	Diagnose the signs of environmental pollution	Candidate to diagnose three indicators of environmental pollution using images supplied by the Assessor	To include: <ul style="list-style-type: none"> correct diagnosis of signs of environmental pollution <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 4.2	Explain how to implement emergency procedures	Candidate to explain how to implement emergency procedures for one specified environmental pollution incident The incident of environmental pollution to be selected from the range of images used in 4.1	May include how to respond to: <ul style="list-style-type: none"> pollution of a watercourse suspected animal poisoning unwanted destruction of vegetation <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 272 4.3	Identify additional measures to ensure that an incident of environmental pollution does not re-occur	Candidate to identify three additional measures to ensure that the incident of environmental pollution specified in 4.2 does not re-occur	May include: <ul style="list-style-type: none"> improvement of storage relocation of mixing/filling site use of bunded mixing/filling site adequate resources for dealing with spillage (e.g. inert materials) use of additional buffer zones to protect habitats ensure application equipment is regularly inspected modify working practices <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Unit 273 – The Selection, Storage and Effective use of Pesticides

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 273 1.1	Explain how pesticides ensure the health of crops/plant material or control unwanted growth	Candidate to explain four different ways that pesticides work	May include: <ul style="list-style-type: none"> selective – control weeds with little or no effect on the crop (e.g. controlling broad leaved or grass weeds within a cereal crop) non-selective – toxic to most plants, mainly used for total control of vegetation in certain areas (e.g. total weed control on footpaths) protectant – designed to prevent the plant from getting a disease curative – controls disease as it appears on (or in) the plant eradicator – controls disease after it appears on (or in) the plant persistent – 'breaks down' very slowly. It remains in the environment for a period of time non-persistent – compounds that break down quickly in the environment <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 1.2	Describe different types of pesticide formulation	Candidate to describe three types of pesticide formulation	May include: <ul style="list-style-type: none"> wettable powders (WP) – a dry, sprayable solid pesticide formulation typically applied as suspended particles after dispersion in water water dispersible granules (WG) – a dry, sprayable pesticide formulation consisting of granules to be applied after dispersion in water suspension concentrates (SC) – a liquid, sprayable stable suspension of solid pesticide(s) in a fluid usually intended for dilution with water before use emulsifiable concentrates (EC) – a liquid, sprayable solution of a pesticide with emulsifying agents in a water insoluble organic solvent which will form an emulsion when added to water granules (GR) – a dry, spreadable soil applied granule on an inert or fertiliser carrier pellets (PT) – a dry spreadable soil applied pellet dustable powder (DP) – a finely ground, dry mixture combining a low concentration of the pesticide with an inert carrier such as talc, clay, or volcanic ash <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 1.3	Describe pesticide modes of action	Candidate to describe three pesticide modes of action	May include: <ul style="list-style-type: none"> contact – acts only on the plant tissue in contact with the chemical (does not kill the roots) residual (soil-acting) – stays in the soil, which kills any germinating weed seedlings (does not kill existing weeds or plants) systemic/translocated – moves through the plant, either from foliar application down to the roots, or from soil application up to the leaves translaminar – redistributes pesticide from the upper, sprayed leaf surface to the lower, unsprayed surface <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 273 1.4	Explain why adjuvants are used and how they work	Candidate to explain why adjuvants are used Candidate to list and explain the use of two types of adjuvant	Explanation to include: <ul style="list-style-type: none"> a substance or preparation to be mixed with a plant protection product to enhance its effectiveness May include: <ul style="list-style-type: none"> surfactants – used to improve the wetting, spreading, dispersing and emulsifying properties of pesticide mixtures wetting agents – help some pesticides (e.g. wettable powders) mix with water and stick on surfaces spreaders – help pesticides form uniform coatings over treated surfaces ammonium and sulphate salts – enhance the uptake of some pesticides when applied in hard water oil based adjuvants – affect leaf surfaces to allow better contact with the pesticide sticking agents – help pesticides resist being washed off by the rain <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 1.5	Discuss the implications of tank mixing and why the practice is carried out	Candidate to discuss why tank mixing is carried out Candidate to discuss two advantages of tank mixing Candidate to discuss two disadvantages of tank mixing	To include: <ul style="list-style-type: none"> some pesticides require mixing with additional products (e.g. compatibility agents) there may be more than one pest, pathogen or reason to apply requiring the use of more than one pesticide (e.g. a combined disease control and weed control application) May include: <ul style="list-style-type: none"> a combination of pests, pathogens or other reasons to apply can be combined in a single application fewer passes through the crop less water used in a season less fuel used, if using a prime-mover May include: <ul style="list-style-type: none"> more time required to fill the tank risk of mixing incompatible products may not be optimum application timing for both products <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 1.6	Explain a recommended tank filling sequence when using two or more different pesticide formulations	Candidate to explain a recommended tank filling sequence for two different pesticide formulations as determined by the Assessor	Recommended order: <ul style="list-style-type: none"> water conditioners water dispersible granules (less than 100g/ha) water soluble bags water dispersible granules (more than 100g/ha) wettable powders compatibility agents suspension concentrates suspo-emulsion oil in water emulsion emulsifiable concentrate soluble concentrate other adjuvants micro-nutrients / foliar feeds <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 273 2.1	Discuss the considerations relating to the siting and construction of a pesticide store	Candidate to discuss four considerations relating to the siting of a pesticide store Candidate to discuss four key considerations relating to the construction of a pesticide store	May include: <ul style="list-style-type: none"> • separate from buildings, housing, combustible materials (e.g. hay, straw, fertiliser and fuel) and sources of ignition • sited away from drains • sited away from rainwater run-off areas • sited away from areas liable to flooding • sited away from watercourse (minimum 10m) • sited away from boreholes, wells or springs (minimum 50m) • where possible, away from main vehicular/pedestrian access routes • convenient access for deliveries May include: <ul style="list-style-type: none"> • large enough to contain all requirements, especially in peak season • be able to contain all spillages and leaks (bunded) • constructed from fire-proof materials • secure from theft and unauthorised entry • warning sign displayed • well ventilated • dry • frost-proof • protect products from direct sunlight • well lit • all shelving within easy reach of sprayer operator • separate cabinet (lockable) for gassing formulations <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 2.2	Explain how to manage a pesticide store following industry best practice	Candidate to explain six requirements of a well-managed pesticide store	May include: <ul style="list-style-type: none"> • stock rotation • stock arrangement – e.g. powders stored above liquids • separate areas for different pesticide groups • flammable products stored in separate section • products stored away from access points • clean and tidy store • emergency action plan clearly displayed • spillage equipment in place • PPE available • regular inspection • trained and informed staff • up-to-date stock inventory • duplicate stock records <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 2.3	Explain restrictions relating to the transport of pesticides in mobile stores and how compliance can be achieved	Candidate to explain five requirements for transporting pesticides in mobile stores	May include: <ul style="list-style-type: none"> • use a vehicle with a floor-to-ceiling bulkhead between the driver/passenger compartment and the load compartment • where the vehicle has no bulkhead, fit secure chemical containers or provide a secure cabinet mounted on the exterior of the vehicle or on a trailer • check that the load-carrying area is free of projections which might damage containers • mark the load-carrying area with the general danger warning sign • park your mobile store away from any location where water pollution could occur • try to work within sight of your mobile store – especially in areas where the public may have access • lock the cabinet or vehicle when it is unattended • check that lids/caps on any part-used products are secure before the journey back to the fixed store 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Continued							

CRITERIA NUMBER	ASSESSMENT CRITERIA	ASSESSOR GUIDANCE	ASSESSMENT ACTIVITIES	CANDIDATE			
				A	B	C	D
Cont.... Unit 273 2.3			<ul style="list-style-type: none"> make sure you take all empty containers, packaging and other equipment back to your empties store return unused pesticides to your fixed store <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 3.1	Identify the pest, pathogen or reason for applying a pesticide	<p>Candidate to identify the pest, pathogen or reason either; from an existing situation or from images supplied by the Assessor</p> <p>Note to Assessor: Candidate may use any suitable aid to assist in identification</p>	<p>To include:</p> <ul style="list-style-type: none"> correct identification of pest, pathogen or reason <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 3.2	Identify a suitable pesticide which will give the level of control required, and has minimal environmental impact	<p>Candidate to identify a suitable pesticide(s) and comment on its effectiveness and level of environmental impact</p> <p>Note to Assessor: Candidate may use any suitable aid to identify a suitable pesticide(s)</p>	<p>To include:</p> <ul style="list-style-type: none"> correct identification of suitable pesticide(s) effectiveness level of environmental impact <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 3.3	Produce a pesticide application plan for the operator	<p>Candidate to produce a pesticide application plan</p> <p>Note to Assessor: Candidate may use any suitable template or software to produce the pesticide application plan</p>	<p>To include all relevant:</p> <ul style="list-style-type: none"> name of person producing the plan business contact details location of crop/plant material crop/plant material description variety growth stage area/amount to be treated water volume/reduced volumes if applicable spray quality other application guidance (e.g. timing) pesticide(s) trade name pesticide(s) active ingredient pesticide(s) precautions pesticide(s) application rate total requirement of pesticide(s) for area/amount reason for use use of adjuvants (if applicable) other application guidance Extension of Authorisation for Minor Use (EAMU) Specific Off Label Approval (SOLA) requirements (if applicable) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 3.4	Ensure that the appropriate resources are available for the planned operation	<p>Candidate to ensure that all appropriate resources are available</p>	<p>To include all/any of the following:</p> <ul style="list-style-type: none"> suitable pesticide(s) available product information appropriate application equipment suitably trained and certificated operator appropriate PPE measuring equipment suitable area for measuring, mixing and filling resources to aid compliance with environmental risk assessment (e.g. nozzle shrouds, signage, barrier tape) disposal facilities treatment record <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 273 4.1	Discuss the use of different equipment for a specified operation	Candidate to discuss the use of two types of suitable application equipment, which may include variants of main types	May include variants of: <ul style="list-style-type: none"> hand-held applicators machine mounted applicators other application methods as determined by the treatment requirements <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 4.2	Explain the procedures for mixing and applying pesticides for a specified operation	Candidate to explain all procedures relating to the mixing and application of pesticides using one specified piece of application equipment	To include: <ul style="list-style-type: none"> carry out and comply with environmental risk assessment read and interpret product information select and use required PPE inspect and set-up applicator calibrate applicator measure and mix pesticides fill applicator apply pesticide products clean and decontaminate application equipment dispose of waste products arising from application complete treatment record <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 5.1	Explain how to determine if a pesticide application has been effective	Candidate to explain how to determine the effectiveness of a pesticide application	To include: <ul style="list-style-type: none"> level of control anticipated level of control achieved <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 5.2	Review the success of a pesticide application	Candidate to review the success of a pesticide application from images supplied by the Assessor, the pesticide application plan, and the treatment record	To include: <ul style="list-style-type: none"> level of control anticipated level of control achieved recommendations for future control strategies <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 273 5.3	Explain the conditions that could impact on the success of a pesticide application	Candidate to explain five conditions that could impact on the success of a pesticide application	May include: <ul style="list-style-type: none"> date of application time of day wind speed wind direction temperature humidity soil conditions planned water rate/application rate compared to actual water rate/application rate equipment used other comments (e.g. light rain shower shortly after application) <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 274 2.1	Identify the methods of Integrated Pest Management and explain how each is carried out: <ul style="list-style-type: none"> cultural control biological control mechanical/physical control chemical control 	Candidate to identify the four main methods of IPM Candidate to explain two methods of cultural control Candidate to explain two methods of biological control Candidate to explain two methods of mechanical/physical control Candidate to explain two methods of chemical control	To include: <ul style="list-style-type: none"> cultural control biological control mechanical/physical control chemical control May include: <ul style="list-style-type: none"> stale seedbeds – e.g. allowing weeds to germinate prior to pre-planting control crop rotation – e.g. sowing or planting different groups of plants to avoid nutrient deficiencies or build up of pests or diseases varietal resistance – use of varieties demonstrating natural resistance to pests or diseases May include: <ul style="list-style-type: none"> natural predators – e.g. mites which feed on the pest but do not damage the plant bacteria – e.g. bacteria which infect and destroy the pest trapping – e.g. pheromone traps to attract and then trap pests alternative hosts – e.g. the planting of alternative host plants to attract the pests elsewhere May include: <ul style="list-style-type: none"> hand weeding – e.g. the removal of ragwort by pulling-out by hand cultivations – e.g. using equipment mechanical or hand operated to control weeds mowing/topping – e.g. the cutting off of thistles close to the ground temperature – e.g. using flame guns to ‘burn off’ weeds To include: <ul style="list-style-type: none"> selective control – e.g. chemical controlling broad leaved weeds in lawns or cereals non-selective control – e.g. use of a chemical that is toxic to most plants, used for total control of vegetation <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 2.2	Determine when a specific control is required	Candidate to determine when a specific control is required from images supplied by the Assessor	To include: <ul style="list-style-type: none"> determine when control is required (e.g. threshold limit reached) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 2.3	Identify when it is appropriate to use a specific method and predict likely levels of success	Candidate to identify a specific method of control for the situation in 2.2 and predict likely levels of success	To include: <ul style="list-style-type: none"> appropriate method of control identified likely levels of success predicted <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 3.1	Identify a weed, pest or disease requiring an IPM Solution	Candidate to Identify one weed, pest or disease from images supplied by the Assessor Note to Assessor: Candidate may use any suitable aid to assist in identification	To include: <ul style="list-style-type: none"> correct identification of the weed, pest or disease <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 274 3.2	Identify suitable effective IPM solution(s) which have minimal environmental impact	<p>Candidate to:</p> <ul style="list-style-type: none"> identify a suitable IPM solution(s) justify the choice predict the environmental impact <p>Note to Assessor: Candidate may use any aid to identify a suitable IPM solution(s)</p>	<p>To include:</p> <ul style="list-style-type: none"> correct identification of suitable IPM solution(s) adequate justification provided level of environmental impact predicted <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 3.3	Produce an IPM plan to be implemented by an operator	<p>Candidate to produce an IPM plan</p> <p>Note to Assessor: Candidate may use any suitable template or software to produce the IPM work plan including Voluntary Initiative (VI) materials</p>	<p>To include relevant details as appropriate:</p> <ul style="list-style-type: none"> name of person producing the plan business contact details location of crop/plant material crop/plant material description variety growth stage area/amount to be treated/controlled reason for treatment/control method of treatment/control other control guidance (e.g. timing) <p>If chemical control is selected as the control method then the plan must also contain the following:</p> <ul style="list-style-type: none"> pesticide(s) dose rate water volume spray quality other application guidance (e.g. timing) pesticide(s) trade name pesticide(s) active ingredient pesticide(s) precautions total requirement of pesticide(s) for area/amount use of adjuvants (if applicable) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 3.4	Ensure that the appropriate resources are available to implement the plan	Candidate to ensure that all appropriate resources are available	<p>May include:</p> <ul style="list-style-type: none"> suitably trained/certificated (if applicable) operators cultural control resources (as applicable) biological control resources (as applicable) mechanical/physical control resources (as applicable) chemical control resources (as applicable) <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 4.1	Compare the financial impact of implementing the IPM solution against other possible methods	Candidate to compare the cost of the IPM solution selected for 3.1 against the other options	<p>To include:</p> <ul style="list-style-type: none"> comparison of selected solution against other options likely success of other options relative (rather than specific) cost of control methods <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 5.1	Review the conditions when an IPM solution was implemented	Candidate to review a completed IPM operator record as approved or supplied by the Assessor	<p>To include all relevant:</p> <ul style="list-style-type: none"> date of control/application type of control/application time of day wind speed wind direction temperature humidity soil conditions equipment used other comments (e.g. light rain shower shortly after control/application) <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 274 5.2	Explain how to determine if an IPM solution has been effective	Candidate to explain how to determine the effectiveness of an IPM solution	To include: <ul style="list-style-type: none"> level of control anticipated level of control achieved <p style="text-align: right;">Met ✓ Not Met X</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unit 274 5.3	Review and revise the success of an IPM solution	Candidate to review and revise the success of an IPM solution, from images supplied by the Assessor	To include: <ul style="list-style-type: none"> review IPM plan level of control anticipated check completed IPM operator record review level of control achieved required changes to original plan recommendations for future control strategies <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:	