

Mapping Lantra Awards to BTEC Level 3 Nationals in

Forestry and Arboriculture





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Forestry and Arboriculture

Pearson BTEC and **Lantra Awards** have teamed-up to offer your Level 3 learners comprehensive study programmes designed around specific land-based occupations offering your learners additional key work-based skills to help them pursue a career in this sector.

This exciting new combination means **BTEC Level 3 Nationals** learners can:

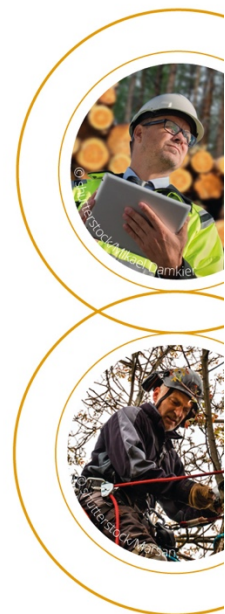
- acquire the key industry skills, knowledge and regulatory certification employers in this sector expect and look for
- cover some of the content for the Lantra Awards legislative tests within their current BTEC study programmes
- be confident they have the skills they will need to get their career off to the best possible start.

This mapping document will help you see what's already covered within your BTEC Nationals specification and any additional requirements needed in order to deliver specific Lantra awards.

Contents

The following Lantra Awards courses complement your BTEC Nationals in Forestry and Arboriculture course:

- ▶ **Lantra Awards Level 2 Award in Chainsaw Maintenance (600/5699/X)**
- ▶ **Lantra Awards Level 2 Award in Cross-cut Timber Using a Chainsaw (600/5700/2)**
- ▶ **Lantra Awards Level 2 Award in Felling and Processing Trees up to 380mm**
- ▶ **Lantra Awards Technical Award in Health and Safety for Agriculture and Horticulture**
- ▶ **Lantra Awards Level 2 Award in Accessing a Tree using a Rope and Harness**
- ▶ **Lantra Awards Level 3 Award in Aerial Tree Rescue Operations**





Lantra Awards Level 2 Award in Chainsaw Maintenance (600/5699/X)

Learning Outcomes mapped to BTEC Level 3 National in Forestry and Arboriculture Units

Lantra Learning Outcomes	Lantra Assessment Criteria	BTEC Unit Title	BTEC Learning Aim
1. Be able to work safely.	1.1. Identify the hazards and risks associated with the working area and the proposed work	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	1.2. Use appropriate tools, equipment and personal protective equipment (PPE)		
	1.3. Work in a way which maintains health and safety and is consistent with relevant legislation and industry good practice		
	1.4. Carry out work to minimise environmental damage		
	1.5. Dispose of waste safely in line with legislation	Unit 1: Professional Working Responsibilities	C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3 Environmental and waste management policies, plans and audits
2. Be able to carry out maintenance of chainsaw and cutting system	2.1. Check all safety features on the chainsaw are present and not damaged	Unit 9: Tree-felling Activities	A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw A3: Cross-cutting techniques



2.2. Select appropriate maintenance tools for the power unit and cutting systems in accordance with operator's handbook	Unit 9: Tree-felling Activities	<p>B: Plan activities for chainsaw felling of small-diameter trees B1: Assessing needs B2: Planning activities</p> <p>C: Carry out planned felling and clearing activities for small diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>
	Unit 10: Forestry and Arboricultural Machinery Operations	<p>A: Investigate the types and purposes of specialised machinery for use in forestry or arboriculture A1: Machine types and purposes A2: Criteria for selecting machines and selecting for a specified purpose</p>
2.3. Maintain power unit in accordance with operator's handbook using appropriate tools	Unit 9: Tree-felling Activities	<p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw</p>
	Unit 10: Forestry and Arboricultural Machinery Operations	<p>A: Investigate the types and purposes of specialised machinery for use in forestry or arboriculture A1: Machine types and purposes A2: Criteria for selecting machines and selecting for a specified purpose</p> <p>B: Carry out routine maintenance of specialised forestry or arboricultural machinery to sustain its effectiveness B1: Machinery components and maintenance requirements B2: Maintenance methods and equipment B3 Fault-finding and correction</p>
2.4. Maintain cutting system in accordance with operator's handbook using appropriate tools	Unit 9: Tree-felling Activities	<p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw</p>



		Unit 10: Forestry and Arboricultural Machinery Operations	B: Carry out routine maintenance of specialised forestry or arboricultural machinery to sustain its effectiveness B1: Machinery components and maintenance requirements B2: Maintenance methods and equipment
	2.5. Reassemble chainsaw and cutting system to functional/operational standard	Unit 10: Forestry and Arboricultural Machinery Operations	B: Carry out routine maintenance of specialised forestry or arboricultural machinery to sustain its effectiveness B:1 Machinery components and maintenance requirements B2: Maintenance methods and equipment B3: Fault-finding and correction
	2.6. Clean and tidy working area	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits
		Unit 10: Forestry and Arboricultural Machinery Operations	C: Operate specialised forestry or arboricultural machinery to perform routine tasks C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage



3. Be able to carry out operational chainsaw checks	3. Be able to carry out operational chainsaw checks	Unit 10: Forestry and Arboricultural Machinery Operations	C: Operate specialised forestry or arboricultural machinery to perform routine tasks C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage
	3.2. Demonstrate safe starting of the chainsaw		
	3.3. Demonstrate post operational checks.		
4. Know relevant health and safety legislation and industry good practice	4.1. Outline key health and safety legislation and industry good practice	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and map B5: Purpose of risk assessment
		Unit 10: Forestry and Arboricultural Machinery Operations	C: Operate specialised forestry or arboricultural machinery to perform routine tasks C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage
	4.2. Outline the emergency planning and procedures relevant to the working area	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace



			<p>B: Health and safety responsibilities</p> <p>B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>
		<p>Unit 10: Forestry and Arboricultural Machinery Operations</p>	<p>C: Operate specialised forestry or arboricultural machinery to perform routine tasks</p> <p>C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage</p>
	4.3. Describe how environmental damage can be caused and minimised.	<p>Unit 1: Professional Working Responsibilities</p>	<p>A: Professional responsibilities associated with the workplace</p> <p>A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities</p> <p>B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>
		<p>Unit 10: Forestry and Arboricultural Machinery Operations</p>	<p>C: Operate specialised forestry or arboricultural machinery to perform routine tasks</p> <p>C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage</p>



	4.4. Describe the correct methods for disposing waste.	Unit 1: Professional Working Responsibilities	C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits
		Unit 10: Forestry and Arboricultural Machinery Operations	C: Operate specialised forestry or arboricultural machinery to perform routine tasks C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage
	4.5. Identify appropriate personal protective equipment	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
		Unit 10: Forestry and Arboricultural Machinery Operations	C: Operate specialised forestry or arboricultural machinery to perform routine tasks C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage



<p>5. Know how to carry out maintenance of chainsaw and cutting system</p>	<p>5.1. Explain the function(s) of all safety features</p> <p>5.2. Explain the function and maintenance requirements of individual components:</p> <ul style="list-style-type: none"> • spark plug • air filter • chainbrake • cooling system • exhaust system • clutch/drive system • sprocket • starter mechanism/recoil system • greasing/lubrication • guide bar • chain <p>5.3. Describe the problems encountered when chain and guidance bar are worn, damaged or poorly maintained</p> <p>5.4. Explain how to select the correct filing information for chain and why this is necessary</p> <p>5.5. Identify different chain types and their application</p> <p>5.6. Explain why it is important to maintain chainsaws to manufacturer's recommendations</p> <p>5.7. State steps to be taken when a chainsaw is not repairable, faulty or non-operational.</p>	<p>Unit 10: Forestry and Arboricultural Machinery Operations</p>	<p>B: Carry out routine maintenance of specialised forestry or arboricultural machinery to sustain its effectiveness</p> <p>B1: Machinery components and maintenance requirements B2: Maintenance methods and equipment B3: Fault-finding and correction</p> <p>C: Operate specialised forestry or arboricultural machinery to perform routine tasks</p> <p>C1: Working safely C2: Operating machinery C3: Disposing of waste C4: Post-use checks and storage</p>
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Lantra Awards Level 2 Award in Cross-cut Timber Using a Chainsaw (600/5700/2)

Learning Outcomes **mapped** to BTEC Level 3 National in Forestry and Arboriculture Units

Lantra Learning Outcomes	Lantra Assessment Criteria	BTEC Unit Title	BTEC Learning Aim
1. Be able to work safely.	1.1. Identify the hazards and risks associated with the working area and the proposed work	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	1.2. Use appropriate tools, equipment and personal protective equipment (PPE)		
	1.3. Work in a way which maintains health and safety and is consistent with relevant legislation and industry good practice		
	1.4. Carry out work to minimise environmental damage	Unit 1: Professional Working Responsibilities	C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits
2. Be able to cross-cut timber using a chainsaw	2.1. Carry out pre-start checks and setting of the machine for use	Unit 9: Tree-felling Activities	A: Develop tree-felling crosscutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw A3: Cross-cutting techniques
	2.2. Inspect timber to identify tension and compression		
	2.3. Demonstrate safe starting of the chainsaw		
	2.4. Cross-cut timber to length using a chainsaw in accordance with the job specification		



	2.5. Use appropriate boring cuts to initiate either tension or compression cuts		
	2.6. Stack produce for subsequent operations using appropriate aids and tools		
	2.7. Check timber is in an appropriate and safe position		
	2.8. Clean and tidy working area	Unit 1: Professional Working Responsibilities	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p> <p>C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits</p>
		Unit 9: Tree-felling Activities	<p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>
3. Know relevant health and safety legislation and industry good practice.	3.1. Outline the key health and safety legislation and industry good practice	Unit 1: Professional Working Responsibilities	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p>



			<p>B: Health and safety responsibilities</p> <p>B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>
		Unit 10: Forestry and Arboricultural Machinery Operations	<p>C: Operate specialised forestry or arboricultural machinery to perform routine tasks</p> <p>C1: Working safely C2: Operating machinery C3: Disposing of waste C4 Post-use checks and storage</p>
		Unit 1: Professional Working Responsibilities	<p>A: Professional responsibilities associated with the workplace</p> <p>A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities</p> <p>B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>
		Unit 10: Forestry and Arboricultural Machinery Operations	<p>C: Operate specialised forestry or arboricultural machinery to perform routine tasks</p> <p>C1: Working safely C2: Operating machinery C3: Disposing of waste C4 Post-use checks and storage</p>
	3.2. Outline the emergency planning procedures relevant to the working area		



	3.3. Describe how to use and maintain tools and equipment	Unit 1: Professional Working Responsibilities A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
		Unit 10: Forestry and Arboricultural Machinery Operations C: Operate specialised forestry or arboricultural machinery to perform routine tasks C1: Working safely C2: Operating machinery C3: Disposing of waste C4 Post-use checks and storage
		Unit 9: Tree-felling Activities A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw A3: Cross-cutting techniques
	3.4. Describe how environmental damage can be minimised	Unit 1: Professional Working Responsibilities A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment



Unit 10: Forestry and Arboricultural Machinery Operations

C: Operate specialised forestry or arboricultural machinery to perform routine tasks

- C1: Working safely
- C2: Operating machinery
- C3: Disposing of waste
- C4 Post-use checks and storage

Lantra Award Assessment Criteria **not covered**

Lantra LO	Lantra Assessment Criteria
4. Know how to cross-cut timber using a chainsaw.	4.1. Describe tension and compression in timber
	4.3. Describe how to safely move timber: <ul style="list-style-type: none"> • By hand • With the use of aid tools • Mechanical assistance.
	4.4. Explain how to grade and present logs for extraction and further processing
	4.5. State precautions to take to avoid uncontrolled timber movement
	4.6. Describe how to apply ergonomic working methods



Lantra Awards Level 2 Award in Felling and Processing Trees up to 380mm (600/5703/8)

Learning Outcomes mapped to BTEC Level 3 National in Forestry and Arboriculture Units

Lantra Learning Outcomes	Lantra Assessment Criteria	BTEC Unit Title	BTEC Learning Aim
1. Be able to work safely.	1.1. Identify the hazards and risks associated with the working area and the proposed work	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	1.2. Use appropriate tools, equipment and personal protective equipment (PPE)		
	1.3. Work in a way which maintains health and safety and is consistent with relevant legislation and industry good practice		
	1.4. Carry out work to minimise environmental damage		
	1.5. Dispose of waste safely in line with legislation	Unit 1: Professional Working Responsibilities	C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits



<p>2. Be able to fell and process trees up to 380mm.</p>	2.1. Prepare site and establish escape route(s) as appropriate	<p>Unit 9: Tree-felling Activities</p>	<p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw A3: Cross-cutting techniques</p> <p>B: Plan activities for chainsaw felling of small diameter trees B1: Assessing needs B2: Planning activities</p> <p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>
	2.2. Prepare trees appropriately to the tree condition and the specification for the site		
	2.3. Carry out pre-start checks and setting of the chainsaw		
	2.4. Demonstrate safe starting of the chainsaw		
	2.5. Fell trees using recognised felling methods and felling aids		
	2.6. Remove branches from felled trees using a recognised method		
	2.7. Turn tree and remove under branches using appropriate aid tools and method(s) where appropriate		
	2.8. Select take down method which is relevant to the hung-up tree size, form and condition.		
	2.9. Take down a hung-up tree using hand tools		
	2.10. Cross-cut timber to length in accordance with the specification		
	2.11. Stack produce for subsequent operations using appropriate aids and tools		
	2.12. Check timber is in an appropriate and safe position		
	2.13. Clean and tidy working area		



3. Know relevant health and safety legislation and industry good practice.	3.1. Outline the key health and safety legislation and industry good practice	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits
	3.2. Outline the emergency planning procedures relevant to the work area		A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits
	3.3. Describe how to use and maintain tools, equipment and personal protective equipment	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits



		<p>Unit 9: Tree-felling Activities</p> <p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw</p> <p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>
3.4. Describe how environmental damage can be caused and minimised		<p>Unit 1: Professional Working Responsibilities</p> <p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p> <p>C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits</p>
3.5. Describe the correct methods for disposing of waste		<p>Unit 1: Professional Working Responsibilities</p> <p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management</p>



	<p>3.6. Describe the legal and environmental factors for felling trees</p>	<p>Unit 1: Professional Working Responsibilities</p>	<p>C3: Environmental and waste management policies, plans and audits</p> <p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation</p> <p>C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management</p>
<p>4. Know how to fell and process trees up to 380mm.</p>	<p>4.1. Describe how to identify which trees need to be felled</p> <p>4.2. Describe alternative felling techniques for trees up to 200mm for:</p> <ul style="list-style-type: none"> • Upright trees • Backward leaning trees • Trees heavily leaning/weighted in the intended felling direction <p>4.3. Describe felling techniques for felling trees over 200mm for:</p> <ul style="list-style-type: none"> • Upright trees • Backward leaning trees • Trees heavily leaning/weighted in the intended felling direction. 	<p>Unit 9: Tree-felling Activities</p>	<p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p> <p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw</p> <p>B: Plan activities for chainsaw felling of small diameter trees B1: Assessing needs B2: Planning activities</p> <p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>



<p>4.4. Describe how to recognise signs of disease and decay in trees and modify felling methods accordingly</p>	<p>Unit 9: Tree-felling Activities</p>	<p>B Plan activities for chainsaw felling of small diameter trees B1 Assessing needs</p>
<p>4.5. Explain the advantages of setting up or using a natural felling bench, brash mat or similar support prior to felling</p>	<p>Unit 8: Tree Pests and Diseases</p>	<p>A: Examine tree pests and diseases for the management of tree health A3: Common pests and diseases affecting trees Explore health management strategies for trees</p> <p>B: Explore health management strategies for trees B2: Prevention and control of pests and diseases</p>
<p>4.6. Explain how and when to use additional equipment, to assist with the felling of trees</p>	<p>Unit 9: Tree-felling Activities</p>	<p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw</p>
<p>4.7. State how to recognise when a tree is difficult to fell</p>		<p>B: Plan activities for chainsaw felling of small diameter trees B1: Assessing needs B2: Planning activities</p>
<p>4.8. Describe the additional safeguards to implement when felling:</p> <ul style="list-style-type: none"> • In proximity to paths • Roads or areas with public access • Underground/above ground wayleaves 		<p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>



<p>5. Know how to remove branches from felled trees using a chainsaw</p>	<p>5.1. Describe how the method of removing branches will vary with tree species</p> <p>5.2. Describe how to identify tension and compression in branches</p> <p>5.3. State the risks to consider when removing branches</p> <p>5.4. State how and when to use equipment to assist with the snedding/de-limbing of trees</p> <p>5.5. Describe a technique for removing branches above shoulder height</p> <p>5.6. Explain the advantages of leaving a clean stem after snedding/de-limbing</p> <p>5.7. State how to deal with arisings after snedding/delimbing</p>	<p>Unit 9: Tree-felling Activities</p>	<p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw</p> <p>B: Plan activities for chainsaw felling of small diameter trees B1: Assessing needs B2: Planning activities</p> <p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>
<p>6. Know how to take down hung up trees</p>	<p>6.1. Describe take down methods for a range of tree sizes</p> <p>6.2. Describe take down methods for trees using winches and other manual and mechanical means</p> <p>6.4. State incorrect techniques for dealing with hung up trees</p> <p>6.5. Describe the appropriate actions to take if a tree cannot be taken down</p>	<p>Unit 9: Tree-felling Activities</p>	<p>A: Develop tree-felling cross-cutting techniques through the safe use and maintenance of chainsaws A1: Chainsaws and their safe use A2: Maintaining the engine and saw</p> <p>B: Plan activities for chainsaw felling of small diameter trees B1: Assessing needs B2: Planning activities</p> <p>C: Carry out planned felling and clearing activities for small-diameter trees C1: Working professionally C2: Evaluating tree-felling activities</p>



Lantra Awards Technical Award in Health and Safety for Agriculture and Horticulture

Learning Outcomes **mapped** to BTEC Level 3 National in Forestry and Arboriculture Units

Lantra Learning Outcomes	Lantra Assessment Criteria	BTEC Unit Title	BTEC Learning Aim
1. Understand the effects accidents and ill health can have upon businesses and people	1.1. Identify the effects that work-related accidents, incidents and ill health can have on people	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice
	1.2. Identify the effects that work-related accidents, incidents and ill health can have on businesses		
2. Know the roles within the workplace that relate to health and safety	2.1. Identify the responsibilities of an employee in relation to health and safety in the workplace	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	2.2. Identify the responsibilities of an employer in relation to health and safety in the workplace		
	2.3. Identify employee responsibilities relating to the use, care and replacement of Personal and Protective Equipment (PPE) provided for use at work		



<p>3. Know how to cooperate with others to improve health and safety</p>	<p>3.1. Identify the benefits of working with others to improve health and safety</p>	<p>Unit 1: Professional Working Responsibilities</p>	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p> <p>C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits</p>
<p>4. Understand how personal work activities can affect the health and safety of others</p>	<p>4.1. Identify how personal work activities can affect the health and safety of others</p>	<p>Unit 1: Professional Working Responsibilities</p>	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>



5. Know the consequences of safe and unsafe behaviour and the impact on workplace attitudes	5.1. Identify examples of safe and unsafe behaviours in the workplace	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	5.2. Identify the consequences of unsafe behaviours in the workplace		
7. Know appropriate measures to control risks in the land-based sector	7.1. Identify appropriate measures to control risks in a named land-based environment	Unit 1: Professional Working Responsibilities	C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits
	7.3. Identify the significance of a risk assessment and safe system of work prepared by the employer		
		Unit 1: Professional Working Responsibilities	B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment



	<p>7.4. Identify the risks and appropriate control measures for significant hazards or workplace activities, including:</p> <ul style="list-style-type: none"> · Workplace transport · Working at height · Working with machinery · Manual handling · Working with high noise levels · High levels of dust and asthmagens · Hazardous substances · Working in confined spaces/excavations · Working with electricity · Slips, trips and falls. 	<p>Unit 1: Professional Working Responsibilities</p>	<p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p> <p>C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits</p>
	<p>7.5. State what to do in the event of an accident</p>	<p>Unit 1: Professional Working Responsibilities</p>	<p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>



Lantra Award Assessment Criteria **not covered**

Lantra Learning Outcomes	Lantra Assessment Criteria
3. Know how to cooperate with others to improve health and safety	3.2. Identify issues that require consultation between employee and employer
	3.3. State ways in which the employee might contribute to a positive health and safety culture
6. Know the major sources of accident and ill health in the work environment	6.1. Know the main sources of accidents in the work environment
	6.2. Know the main sources of ill health in the work environment
7. Know appropriate measures to control risks in the land-based sector	7.2. State why manufacturer's instructions for the use of equipment, materials and products should be followed
8. Understand the importance of checking that the measures in place to protect health and safety are properly maintained	8.1. Identify the benefits of regular checks of vehicles, work equipment and safety equipment

Lantra Awards Level 2 Award in Accessing a Tree using a Rope and Harness

Learning Outcomes mapped to BTEC Level 3 National in Forestry and Arboriculture Units

Lantra Learning Outcomes	Lantra Assessment Criteria	BTEC Unit Title	BTEC Learning Aim
1. Be able to work safely	1.1. Identify the hazards and risks associated with the working area and the proposed work.	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment C: Managing waste responsibly and safely C1: Animal, plant and non-organic waste C2: Legal responsibilities for waste management C3: Environmental and waste management policies, plans and audits
	1.2. Work in a way which maintains health and safety and is consistent with relevant legislation and industry good practice		
	1.3. Use access and tree climbing equipment and personal protective equipment (PPE)		
	1.4. Carry out work to minimise environmental damage	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment



<p>2. Be able to access a tree using a rope and harness.</p>	<p>2.1. Perform a hazard evaluation and Work at Height assessment of the tree prior to commencing the work</p> <p>2.2. Inspect access equipment to ensure it is safe and fit for use under manufacturer's instructions and relevant legislation</p> <p>2.3. Use access and positioning methods appropriate to the assessed risk</p> <p>2.4. Use appropriate positioning techniques within the crown</p> <p>2.5. Communicate appropriately with ground staff</p> <p>2.6. Descend tree in a controlled manner and remove equipment appropriately</p>	<p>Unit 11: Aerial Arboriculture Skills</p>	<p>A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice</p> <p>B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment B3: Tree access and climbing techniques B4: Planning considerations</p> <p>C: Undertake effective aerial arboriculture operations on trees C1: Pruning techniques and operations within canopies C2: Techniques for dismantling trees</p>
<p>3. Know relevant health and safety legislation and industry good practice</p>	<p>3.1. Outline the key health and safety legislation and industry good practice</p>	<p>Unit 1: Professional Working Responsibilities</p>	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>



	3.2. Describe how to use and maintain tools, equipment and personal protective equipment	Unit 11: Aerial Arboriculture Skills	B: Develop plans to access, climb and inspect trees B2: Aerial arboricultural equipment
	3.3. Outline the emergency planning procedures relevant to the work area	Unit 1: Professional Working Responsibilities	B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practice B3: Risk assessment B5: Purpose of risk assessment
4. Know how to access a tree using a rope and harness	4.1. Describe different methods used to safely access a tree	Unit 11: Aerial Arboriculture Skills	A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment B3: Tree access and climbing techniques B4: Planning considerations C: Undertake effective aerial arboriculture operations on trees C1: Pruning techniques and operations within canopies C2: Techniques for dismantling trees
	4.2. Describe different positioning techniques used within crowns		
	4.3. Describe how to ensure that access equipment and systems are in safe working order		
	4.5. Explain how the species, condition of trees and time of year affect the work		

Lantra Award Assessment Criteria **not covered**

Lantra Learning Outcomes	Lantra Assessment Criteria
4. Know how to access a tree using a rope and harness	4.4. Outline the basic principles of tree biology and how they impact on the work

Lantra Awards Level 3 Award in Aerial Tree Rescue Operations

Learning Outcomes mapped to BTEC Level 3 National in Forestry and Arboriculture Units

Lantra Learning Outcomes	Lantra Assessment Criteria	BTEC Unit Title	BTEC Learning Aim
1. Be able to promote health and safety and industry good practice	1.1. Identify the hazards and risks associated with the working area and the proposed work	Unit 11: Aerial Arboriculture Skills	A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment
		Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	1.2. Work in a way which promotes health and safety, is consistent with relevant legislation and industry good practice	Unit 11: Aerial Arboriculture Skills	A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment



		<p>Unit 1: Professional Working Responsibilities</p>	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>
	<p>1.3. Use access and tree climbing equipment and personal protective equipment (PPE)</p>	<p>Unit 11: Aerial Arboriculture Skills</p>	<p>A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice</p> <p>B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment</p>
		<p>Unit 1: Professional Working Responsibilities</p>	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment</p>



<p>2. Be able to carry out aerial rescue operations.</p>	<p>2.1. Perform a hazard evaluation of the tree and Work at Height assessment prior to commencing the work</p> <p>2.2. Inspect access equipment to ensure it is safe and fit for use under manufacturer's instructions and relevant legislation</p> <p>2.3. Use access and positioning methods appropriate to the assessed risks</p> <p>2.4. Identify the rescue technique appropriate to the nature of the incident</p> <p>2.5. Prepare a rescue plan</p> <p>2.6. Implement the rescue plan</p> <p>2.7. Use appropriate positioning techniques in the tree</p> <p>2.8. Communicate appropriately throughout</p>	<p>Unit 11: Aerial Arboriculture Skills</p>	<p>A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice</p> <p>B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment</p> <p>C: Undertake effective aerial arboriculture operations on trees C1: Pruning techniques and operations within canopies C2: Techniques for dismantling trees</p>
<p>3. Understand relevant health and safety legislation and industry good practice</p>	<p>3.1. Explain the risk assessment process</p>	<p>Unit 1: Professional Working Responsibilities</p>	<p>A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace</p> <p>B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B5: Purpose of risk assessment</p>



	3.2. Outline the emergency planning procedures relevant to the work area	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	3.3. Summarise current health and safety legislation and industry good practice		A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment
	3.4. Explain the importance of inspecting equipment following an aerial rescue	Unit 1: Professional Working Responsibilities	A: Professional responsibilities associated with the workplace A1: Characteristics of professional working responsibilities and sources of relevant information A2: Characteristics and scope of personal responsibilities in the workplace B: Health and safety responsibilities B1: Introduction to health and safety and associated legislation B2: Safe working practices B3: Risk assessment B4: Schematics and maps B5: Purpose of risk assessment



		Unit 11: Aerial Arboriculture Skills	A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment C: Undertake effective aerial arboriculture operations on trees C1: Pruning techniques and operations within canopies C2: Techniques for dismantling trees
4. Understand how to carry out aerial rescue operations	4.1. Explain when it would be appropriate to contact the emergency services 4.2. Explain how to report the incident in line with organisational requirements 4.3. Explain the key elements of a rescue plan prior to starting work 4.4. Describe different rescue methods 4.5. Describe when aerial rescue by climbing would not be appropriate 4.6. Explain how to carry out a mobile elevated work platform (MEWP) rescue 4.7. Explain the implications on a MEWP's safe working load limit during aerial rescue 4.8. Explain how species, condition of trees and time of year affect rescues	Unit 11: Aerial Arboriculture Skills	A: Examine the legal, and health and safety considerations in aerial arboriculture A1: Legislation and codes of practice B: Develop plans to access, climb and inspect trees B1: Visual tree assessments (VTAs) B2: Aerial arboricultural equipment C: Undertake effective aerial arboriculture operations on trees C1: Pruning techniques and operations within canopies C2: Techniques for dismantling trees