

# BTEC International Level 3 - Land-based Studies - Content Mapping

2010 qualifications Pearson Level 3 BTEC qualifications in Agriculture (QCF)

Pearson Level 3 BTEC qualifications in Horticulture (QCF)

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
1		Understand animal anatomy and physiology	None	
2	3	Understand the principles of plant science	<p><b>Partially covered in:</b></p> <p><b>Unit 1 Plant and Soil Science</b></p> <p>A1 Plant cell structures and specialisations                      A2 Plant Structure and Function                      A3 Plant Processes                      A4 Plant nutrition                      A5 Reproduction systems</p>	<p><b>Not covered:</b></p> <p>LO3 Understand plant growth and development</p> <p>Note: <i>There is some coverage of the range from this outcome.</i></p>
3	4	Understand the principles of soil science	<p><b>Partially covered in:</b></p> <p><b>Unit 1 Plant and Soil Science</b></p> <p>B1 Soil types and texture                      B2 Soil structure                      B3 Biological and chemical activities affecting soil health and fertility                      B4 Soil acidity and alkalinity                      C1 Soil Management</p>	<p><b>Not covered:</b></p> <p>LO3 Understand how soil characteristics affect plant selection</p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
4	1	Undertake an investigative project in the land-based sector	None	
5	5	Undertake and review work related experience in the land-based industries	<b>Fully covered in:</b> <b>Unit 7 Work Experience in the Land-based Sectors</b> A1 Scope of the land-based sectors A2 Requirements for progression A3 Relevant legislation for work placement opportunities B1 Applying for work-related activities B2 Interview skills B3 Reflecting on preparation and performance C1 Practical work experience C2 Work behaviours C3 Reflecting on workplace practice	
6	2	Business management in the land-based sector	<b>Partially covered in:</b> <b>Unit 6 Land-based Business Improvements</b> A1 The scope and importance of land-based businesses A2 Land-based business operations A3 The land-based business marketplace B1 Product trends and consumer trends B2 Other influences impacting on land-based business performance  <b>Unit 4 Developing a Land-based Enterprise</b> A3 Land-based business processes and procedures C1 Features of a business plan	<b>Not covered:</b> LO2 Understand business resources and structures  <i>Note: UK specific legislation has been removed</i>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
7		<b>Undertake principles of land-based machinery</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 23 Land-based Machinery Operations</b></p> <p>A2 Principles of operation            B1 Preparation            B2 Operation            C1 Maintenance            C2 Servicing and repair</p> <p><b>Unit 24 Land-based Workshop Practices</b></p> <p>A2 Workshop tools and equipment- fixed and portable            B1 Safe and correct use of tools</p>	
8	15	<b>Undertake estate skills</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 2 Estate Skills</b></p> <p>A1 The nature and scope of estate skills for land-based sector management            A2 Assessing needs            A3 Planning tasks            B1 Working safely            B2 Practical estate tasks            B3 Reflecting on tasks undertaken</p>	Note: UK specific legislation has been removed.

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
9		<b>Manage agricultural environments</b>	<p><b>Partially covered in</b></p> <p><b>Unit 3 Understanding Environmental Management</b></p> <p>A1 Ecology of land-based ecosystems  A2 Conserving biodiversity in ecosystems through growth, development and change  B1 Environmental impacts of agriculture and horticulture on ecosystems</p> <p><b>Unit 5 Operational and Environmental Activities in Land-based Enterprises</b></p> <p>C2 Planning processes for environmental management activities  C3 Evaluating management performance.</p>	<p><b>Not covered:</b></p> <p>LO2 Know significant environmental legislation and codes of practice</p> <p>Note: <i>UK specific legislation has been removed.</i></p>
10		<b>Understand agricultural organic production</b>	<p><b>Fully covered in:</b></p> <p><b>Unit 22 Organic Agricultural Production</b></p> <p>A1 Organic principles  A2 Soil processes  A3 Soil fertility  A4 Sustainable agro-ecosystems in an organic environment  B1 Soil management  B2 Crop rotation  B3 Potential problems with crop systems  C1 Key principles of livestock management  C2 Potential challenges in livestock management  C3 Organic feeding</p>	

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
11		<b>Undertake Land-based industries pollution and waste control management</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 5 Operational and Environmental Activities in Land-based Enterprises</b></p> <p>A1 Changes in land-based practices A2 Environmental impact of land-based practices</p> <p><b>Unit 8 Animal Production Systems</b></p> <p>A2 Animal production in agriculture</p> <p><b>Unit 10 Farm Livestock Husbandry</b></p> <p>C4 Farm animal accommodation</p> <p><b>Unit 26 Applied Agricultural Farming Practice</b></p> <p>B3 Managing the welfare of farmed livestock</p> <p><b>Unit 31 Nursery Stock Production</b></p> <p>A3 Resource requirements</p>	Note: UK specific legislation has been removed.

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
12		<b>Undertake agricultural livestock production</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 8 Animal Production Systems</b></p> <p>A1 Factors affecting animal production  A2 Animal production in agriculture  B1 Housing and husbandry requirements  B2 Animal growth and maturity</p> <p><b>Unit 10 Farm Livestock Husbandry</b></p> <p>C1 Health and safety requirements when working with livestock  C2 Animal health checks prior to handling common species  C3 Practical animal handling techniques and equipment for common farm livestock species  C4 Farm animal accommodation</p>	<p><b>Not covered:</b></p> <p>LO4 Be able to plan livestock production</p> <p>Note: <i>There is some coverage of the range from this outcome. UK specific legislation has been removed.</i></p>
13		<b>Undertake agricultural crop production</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 17 Crop Production</b></p> <p>A1 Crop plants and their products  A2 Factors determining crop growing locations  B1 The principles of crop establishment  B2 The principles of maintaining healthy crops  C1 Safe harvesting of crops  C2 The principles of safe storage of crop products</p>	<p><b>Not covered:</b></p> <p>LO4 Understand production costs and markets</p> <p>Note: <i>UK specific legislation has been removed.</i></p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
14	38	Participate in business planning and improvement in the land-based sector	<p><b>Partially covered in:</b></p> <p><b>Unit 6 Land-based Business Improvements</b></p> <p>A1 The scope and importance of land-based businesses  A2 Land-based business operations  A3 The land-based business marketplace  C1 Improving land-based business performance  C2 Planning land-based business improvements</p> <p><b>Unit 4 Developing a Land-based Enterprise</b></p> <p>B1 Market research and analysis  B2 Financial feasibility of a land-based enterprise  C1 Features of a business start-up plan  C2 Presenting the business plan</p>	
15		Undertaking poultry production	<p><b>Fully covered in:</b></p> <p><b>Unit 9 International Poultry Production</b></p> <p>A1 Poultry production systems  A2 Housing requirements  A3 Selection of animals for market and the role of performance indicators  B1 Nutritional requirements  B2 Diet management and feeding practices  B3 Nutritional problems  C1 Routine husbandry  C2 Breeding poultry  C3 Assessing health and welfare</p>	

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
16		<b>Understanding livestock breeding and nutrition</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 16 Livestock Nutrition</b></p> <p>B1 Digestive systems  C1 Nutrient analysis of feeds  C2 Practical considerations for feeding livestock</p> <p><b>Unit 9 International Poultry Production</b></p> <p>C2 Breeding poultry</p> <p><b>Unit 11 International Pig Production</b></p> <p>A2 Preparing for breeding</p> <p><b>Unit 12 International Sheep Production</b></p> <p>C2 Preparing for pre-lambing and lambing</p> <p><b>Unit 13 International Beef Production</b></p> <p>A2 Preparing for breeding</p> <p><b>Unit 14 International Dairy Production</b></p> <p>A3 Dairy cow reproduction</p>	

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
17		<b>Understand and promote animal health</b>	<p><b>Fully covered in:</b></p> <p><b>Unit 15 Livestock Health and Diseases</b></p> <p>A1 Structure and reproduction of pathogens and parasites, and disease transmission</p> <p>A2 Defence against disease</p> <p>B1 Assessing general health in animals</p> <p>B2 Livestock diseases and disorders</p> <p>C1 Health and hygiene</p> <p>C2 Theory and administration of basic treatments and health management</p> <p>C3 Health planning, assessment, recording and monitoring</p>	
18		<b>Understand agricultural forage production</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 20 Grass and Forage Crop Production</b></p> <p>A1 Key biological and physical factors in the growth and development of forage crops</p> <p>A2 Establishing forage crops</p> <p>A3 The digestibility and nutrient value of grazed forage crops</p> <p>B1 Maintaining healthy forage crop production throughout the grazing season</p> <p>B2 Key procedures and issues associated with managing forage crops during the grazing season</p> <p>C1 Common systems for forage crop conservation</p> <p>C2 The digestibility and nutrient value of conserved forage crops</p> <p>C3 Processes for the harvesting and storing conserved forage crops</p>	<p><b>Not covered:</b></p> <p>LO1 Know the role of a range of forage crops</p> <p>Note: <i>There is some coverage of the range from this outcome.</i></p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
19		<b>Undertaking root crop and vegetable field production</b>	<p><b>Fully covered in:</b></p> <p><b>Unit 21 Root Crop and Field Vegetable Production</b></p> <p>A1 Key biological and physical requirements for production  A2 Key husbandry requirements  A3 The role of legislation and codes of practice  B1 Processing requirements for root crops and field vegetables  B2 Quality requirements for marketing root crops and field vegetables  C1 General husbandry tasks  C2 Fertiliser application  C3 Weed, pest and disease control</p>	
20		<b>Understand farm power units - machinery and operation</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 25 Selecting and Managing Land-based Machinery</b></p> <p>A1 Required specifications  A2 Factors influencing procurement decisions  A3 Common procurement and replacement options  B1 Operator and on-the-road legislation, and the role of operator competence  B2 Planning the monitoring of a machinery operation  C1 Monitoring machinery performance  C2 Procurement costs  C3 Operating, maintenance and servicing costs</p>	Note: UK specific legislation has been removed.

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
21		<b>Undertaking sheep production</b>	<p><b>Fully covered in:</b></p> <p><b>Unit 12 International Sheep Production</b></p> <p>A1 Sheep production systems  A2 Preparation for breeding  A3 Selecting animals for market and the role of performance indicators  B1 Nutritional requirements  B2 Diet management and feeding practices  B3 Grazing  B4 Nutritional problems  C1 Routine husbandry  C2 Preparations for pre-lambing and lambing  C3 Care of the newborn lamb</p>	
22		<b>Undertake beef production</b>	<p><b>Partially covered by:</b></p> <p><b>Unit 13 International Beef Production</b></p> <p>A1 Beef production systems  A2 Preparing for breeding  A3 Selecting animals for dale, end of use and the role of performance indicators  B1 Nutritional requirements  B2 Diet management and feeding practices  B3 Grazing  B4 Nutritional problems  C1 Routine husbandry  C2 Care of calves</p>	<p><b>Not covered:</b></p> <p>LO1 Know beef production systems used in the UK (UK specific references removed)</p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
23		<b>Undertake dairy production</b>	<b>Fully covered in:</b> <b>Unit 14 International Dairy Production</b> A1 Dairy production systems A2 Dairy cow welfare A3 Dairy cow reproduction B1 Nutritional requirements B2 Diet management and feeding practices B3 Grazing B4 Nutritional problems C1 Milk hygiene C2 Routine husbandry C3 Health and disease	

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No.		Title		
Agri	Horti			
24		<b>Understand and carry out farm livestock husbandry</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 10 Farm Livestock Husbandry</b></p> <p>A1 Farm livestock types and breeds  A2 Production systems  B1 Nutrition for farm animals  B2 Feeding and watering regimes and equipment  B3 Feed ration formulation  C1 Health and safety requirements when working with farm animals  C2 Animal health checks prior to handling common species  C3 Practical animal handling techniques and equipment for common farm livestock species  C4 Farm animal accommodation</p> <p><b>Unit 9 International Poultry Production</b></p> <p>A3 Selection of animals for market and the role of performance indicators</p> <p><b>Unit 11 International Pig Production</b></p> <p>A3 Selecting animals for market, end of use and the role of performance indicators</p> <p><b>Unit 12 International Sheep production</b></p> <p>A3 Selecting animals for market and the role of performance indicators</p> <p><b>Unit 13 International Beef Production</b></p> <p>A3 Selecting animals for market, end of use and the role of performance indicators</p> <p><b>Unit 14 International Dairy Production</b></p> <p>C2 Routine husbandry</p>	

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No.		Title		
Agri	Horti			
25		<b>Mechanised agricultural crop handling and storage</b>	<b>Fully covered in:</b> <b>Unit 18 Crop Handling, Storage and Quality Assurance</b> A1 The storage requirements of dry crop products A2 The management of dry crop products in storage B1 The storage requirements of fresh crop products B2 The storage requirements of forage crop products B3 The management of fresh crop products in storage C1 Combinable crop handling equipment C2 Handling roots, fruit, field vegetables and forage crops	
26		<b>Undertaking land-based workshop practice</b>	<b>Partially covered in:</b> <b>Unit 24 Land-based Workshop Practices</b> A1 Workshop environment and materials A2 Workshop tools and equipment - fixed and portable B1 Safe and correct use of tools B2 Correct tool maintenance and storage C1 Use of operator manuals for machinery to be repaired and maintained C2 Selection and use of appropriate tools and equipment C3 Organising and checking work	<b>Not covered:</b> LO4 Be able to maintain, replace or repair worn or broken components in a land-based situation
27		<b>Undertaking specialised land-based workshop practices</b>	<b>None</b>	
28		<b>Understand and use agricultural spreaders and sprayers</b>	<b>None</b>	

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Agri	Horti			
29		<b>Undertaking pig production</b>	<p><b>Fully covered in:</b></p> <p><b>Unit 11 International Pig Production</b></p> <p>A1 Pig production systems  A2 Preparation for breeding  A3 Selecting animals for market, end of use and role of performance indicators  B1 Nutritional requirements  B2 Diet management and feeding practices  B3 Nutritional problems  C1 Routine husbandry  C2 Preparations for pre-farrowing and farrowing</p>	
30		<b>Understand grassland management</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 20 Grass and Forage Crop Production</b></p> <p>A1 Key biological and physical factors in the growth and development of forage crops  B1 Maintaining healthy forage crop production throughout the grazing season  C1 Common systems for forage crop conservation  C2 The digestibility and nutrient value of conserved forage crops  C3 Processes for harvesting and storing conserved forage crops</p>	<p><b>Not covered:</b></p> <p>LO3 Be able to manage grassland for grazing</p> <p>Note: <i>There is some coverage of the range from this outcome.</i></p>

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No.		Title		
Agri	Horti			
31	6	<b>Undertaking land-based machinery operations</b>	<p><b>Fully covered in:</b></p> <p><b>Unit 23 Land-based Machinery Operations</b></p> <p>A1 Types of machine and their purpose  A2 Principles of operation  A3 Range of conditions in which machinery may be operated  A4 Health and safety considerations  B1 Preparation  B2 Operation  C1 Maintenance  C2 Servicing and repair</p>	
32		<b>Undertaking farm habitat management</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 3 Understanding Environmental Management</b></p> <p>A1 Ecology of land-based ecosystems  A2 Conserving biodiversity in ecosystems through growth, development and change  B1 Environmental impacts of agriculture and horticulture on ecosystems</p> <p><b>Unit 41 Wildlife Ecology and Conservation Management</b></p> <p>B1 Habitat surveys for wildlife management  B2 Monitoring wildlife populations  C2 Carrying out practical habitat management and wildlife rehabilitation  C3 Monitoring the outcomes of practical habitat and wildlife rehabilitation</p>	<p><b>Not covered:</b></p> <p>LO1 Understand the development of the agricultural landscape</p>

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No.		Title		
Agri	Horti			
33		Understanding the principles of animal biology	None	<p><b>Not covered:</b></p> <p>LO1 Know the functions of the main animal cell organelles</p> <p>LO2 Understand the structure and function of the main animal tissue types</p> <p>LO3 Know the structure and function of animal skeletal systems</p> <p>LO4 Know the structure and function of sensory organs in animals</p>
34		Undertaking agricultural combinable crop production	<p><b>Partially covered in:</b></p> <p><b>Unit 19 Combinable Crop Production and Processing</b></p> <p>A1 Production requirements</p> <p>A2 Crop choice and establishment</p> <p>A3 The role of legislation and codes of practice</p> <p>B1 Processing requirements for combinable crops</p> <p>B2 Quality requirements for marketing combinable crops</p> <p><b>Unit 26 Applied Agricultural Farming Practice</b></p> <p>A4 Safe harvesting and storage of crops</p>	<p><b>Not covered:</b></p> <p>LO4 Understand combinable crop production costs and markets</p> <p>Note: <i>There is some coverage of the range from this outcome.</i></p>

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No.		Title		
Agri	Horti			
	7	<b>Undertake the identification and selection of ornamental plants</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 27 Identification, Planting and Care of Plants</b></p> <p>A1 Terminology used in plant nomenclature  A2 Categorisation of plants  A3 Characteristics of plants for identification  B1 Selecting plants  B2 Factors affecting the suitability of plants  C1 Preparation for planting  C2 Planting methods  C3 Providing initial aftercare</p> <p><b>Unit 34 Identification, Planting and Care of Trees</b></p> <p>A1 Terminology used in tree nomenclature  A2 Categorisation of trees  A3 Characteristics of trees for identification  B1 Considerations affecting the choice of trees for specific areas  B2 Factors affecting the suitability of trees  C1 Preparation for planting  C2 Planting methods  C3 Providing aftercare</p>	<p><b>Not covered:</b></p> <p>LO3 Be able to prepare ornamental planting designs  - Plan</p>

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No.		Title		
Agri	Horti			
	8	Undertake the principles and practice of landscape and garden design	<b>Fully covered in:</b> <b>Unit 42 Landscape and Garden Design</b> A1 Client needs analysis A2 Legal requirements A3 Key documents B1 Site inventory and analysis of characteristics and issues B2 Site appraisal C1 Design principles and layout C2 Design development methods C3 Design proposal plan and presentation	
	9	Manage and establish exterior plant displays	<b>None</b>	
	10	Manage and establish interior plant displays	<b>None</b>	
	11	Understand the principles of advanced horticultural science	<b>None</b>	
	12	Manage soil water	<b>Fully covered in:</b> <b>Unit 46 Managing Soil Water</b> A1 Soil water management A2 Soil water relationships B1 Maintenance of irrigation B2 Maintenance of drainage systems C1 Relevant legislation and guidance	

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No.		Title		
Agri	Horti			
	13	Construct and establish sports and amenity turf areas	None	
	14	Maintain turf in parks and gardens	<p><b>Fully covered in:</b></p> <p><b>Unit 37 Maintaining the Health and Quality of Turf in Parks and Gardens</b></p> <p>A1 Maintenance operations of turf in parks and gardens</p> <p>A2 Factors that affect maintenance operations</p> <p>A3 Repair and renovation requirements of turf in parks and gardens</p> <p>B1 Planning turf maintenance for an area of a park or garden</p> <p>B2 Seasonal impacts on maintenance planning for turf in parks and gardens</p> <p>B3 Key features of a turf-maintenance plan</p> <p>C1 Preparing to undertake turf maintenance in parks and gardens</p> <p>C2 Completing maintenance tasks</p> <p>C3 Reviewing outcomes of maintenance tasks</p>	

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No.		Title		
Agri	Horti			
	16	<b>Manage plant propagation activities</b>	<b>Fully covered in:</b> <b>Unit 29 Plant Propagation Activities</b> A1 Environmental conditions necessary for propagation A2 Physical structures for managing the propagation environment A3 Planning schedules for targeted plants B1 Collection and preparation of propagation material B2 Preparing growing media for propagation B3 Establishing propagation material in the propagation environment C1 Initial aftercare C2 Ongoing plant care and monitoring	
	17	<b>Understand historical influences in the development of gardens</b>	<b>None</b>	
	18	<b>Undertake computer-aided design in horticulture, treework and blacksmithing</b>	<b>Partially covered in:</b> <b>Unit 45 Computer-aided Design in Horticulture</b> A1 Using 2D drawing commands A2 Developing 2D horticultural drawings A3 Output of 2D drawings B1 3D modelling and modelling commands B2 Developing a 3D component B3 Output of drawings from a model C1 Construction detailing C2 Planting plan and plant schedule C3 Output of product drawings	<b>Not covered:</b> LO4 Understand the usefulness of Computer Aided Design packages in land-based industries

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No.		Title		
Agri	Horti			
	19	Manage winter and summer sports turf surfaces	<p><b>Partially covered in:</b></p> <p><b>Unit 32 Maintenance of Sports and Amenity Turf</b></p> <p>A1 Maintenance operations of sports and amenity turf</p> <p>A2 Factors that affect maintenance operations</p> <p>A3 Repair and renovation requirements of sports and amenity turf</p> <p>B2 Seasonal impacts on maintenance planning for sports and amenity turf</p>	<p><b>Not covered:</b></p> <p>LO4 Understand how to determine the level of quality of sports turf surfaces</p>
	20	Manage amenity turf	<p><b>Partially covered in:</b></p> <p><b>Unit 32 Maintenance of Sports and Amenity Turf</b></p> <p>A1 Maintenance operations of sports and amenity turf</p> <p>A2 Factors that affect maintenance operations</p> <p>A3 Repair and renovation requirements of sports and amenity turf</p> <p>B2 Seasonal impacts on maintenance planning for sports and amenity turf</p> <p>B3 Key features of a turf maintenance plan</p> <p>C1 Preparing to undertake sports and amenity turf</p> <p>C2 Completing maintenance tasks</p> <p>C3 Review of outcomes of maintenance tasks</p>	<p>Note: <i>UK specific legislation, organisations and standards have been removed.</i></p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	21	Undertake and carry out identification, planting and care of trees	<p><b>Partially covered in:</b></p> <p><b>Unit 34 Identification, Planting and Care of Trees</b></p> <p>A1 Terminology used in tree nomenclature  A2 Categorisation of trees  A3 Characteristics of trees for identification  B1 Considerations affecting the choice of trees for specific areas  B2 Factors affecting the suitability of trees  C1 Preparation for planting  C2 Planting methods  C3 Providing aftercare</p>	<p><b>Not covered:</b></p> <p>LO3 Be able to plant trees and shrubs  LO4 Understand the planting of trees and shrubs  LO5 Know the aftercare requirements of trees and shrub</p> <p><i>Note: There is some coverage of the range from these outcomes.</i></p>
	22	Undertake tree and shrub pruning and maintenance	<p><b>Fully covered in:</b></p> <p><b>Unit 30 Tree and Shrub Pruning and Maintenance</b></p> <p>A1 Reasons for pruning and maintaining trees and shrubs  A2 Pruning techniques  A3 Considerations when pruning  B1 Assessing trees and shrubs for potential failure  B2 Remedial action to reduce risks of tree failure  C1 Pruning requirements  C2 Planning the pruning operation  C3 Carry out appropriate pruning</p>	
	23	Undertake arboricultural skills	<b>None</b>	
	24	Undertake advanced arboricultural practices	<b>None</b>	

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No.		Title		
Agri	Horti			
	25	<b>Construct horizontal landscape surfaces</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 43 Constructing Decorative Landscape Features</b></p> <p>A2 Design interpretation and specification development            B1 Quantification and bills            B2 Contract documentation            B3 Planning a programme of works            C1 Site preparation and safe site management            C2 Construction of features            C3 Review of works</p>	<p><b>Not covered:</b></p> <p>LO1 Be able to form ground profiles for landscape works            LO2 Understand the formation of ground profiles for landscape works</p> <p><i>Note: There is some coverage of the range from these outcomes.</i></p> <p>LO4 Understand the maintenance of horizontal surfaces and simple steps</p>
	26	<b>Construct and restore walls</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 43 Constructing Decorative Landscape Features</b></p> <p>A1 Existing site considerations            A2 Design interpretation and specification development            B1 Quantification and bills            B2 Contract documentation            B3 Planning a programme of works            C1 Site preparation and safe site management            C2 Construction of features            C3 Review of works</p>	<p><b>Not covered:</b></p> <p>LO3 Be able to restore a wall</p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	27	<b>Construct and maintain timber landscape features</b>	<b>Partially covered in:</b> <b>Unit 43 Constructing Decorative Landscape Features</b> A1 Existing site considerations A2 Design interpretation and specification development B1 Quantification and bills B2 Contract documentation B3 Planning a programme of works C1 Site preparation and safe site management C2 Construction of features C3 Review of works	<b>Not covered:</b> LO3 Understand the maintenance and preservation of timber features
	28	<b>Construct and maintain decorative landscape features</b>	<b>Partially covered in:</b> <b>Unit 43 Constructing Decorative Landscape Features</b> A1 Existing site considerations A2 Design interpretation and specification development B1 Quantification and bills B2 Contract documentation B3 Planning a programme of works C1 Site preparation and safe site management C2 Construction of features C3 Review of works	<b>Not covered:</b> LO4 Be able to establish and maintain climbing and wall plants

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	29	Understand the principles and carry out the practice of wildlife population surveys, ecology and conservation	<b>Partially covered in:</b> <b>Unit 41 Wildlife Ecology and Conservation Management</b> A1 Distributions of ecosystems A2 Relationships in ecosystems B1 Habitat surveys for wildlife management B2 Monitoring wildlife populations B3 Planning for wildlife habitat management and rehabilitation C1 Interpretation of habitat management and wildlife rehabilitation plans C2 Carrying out practical habitat management and wildlife rehabilitation	<b>Not covered:</b> LO1 Understand changes in global ecosystems LO2 Understand national and international conservation strategies for wildlife and their habitats
	30	Undertake contract management in the land-based industries	<b>None</b>	

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	31	<b>Undertake horticultural production techniques-outdoors</b>	<p><b>Fully covered in:</b></p> <p><b>Unit 39 Outdoor Horticultural Crop Production</b></p> <p>A1 Plant suitability for outdoor horticultural crop production systems</p> <p>A2 Site selection and growing systems for outdoor horticultural crops</p> <p>A3 Resource requirements</p> <p>A4 Factors affecting the management of plant growth and establishment</p> <p>B1 Site preparation and establishment methods for outdoor horticultural crops</p> <p>B2 Maintaining outdoor horticultural crops</p> <p>C1 Harvesting and grading of outdoor horticultural crops</p> <p>C2 Maintaining the shelf life of outdoor horticultural crops</p>	

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	32	<b>Undertake horticultural production techniques-protected</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 38 Protected Horticultural Crop Production</b></p> <p>A1 Plant suitability for protected horticultural crop production systems</p> <p>A2 Site selection and growing systems for protected horticultural crops</p> <p>A3 Resource requirements</p> <p>A4 Factors affecting the management of plant growth and establishment</p> <p>B1 Site preparation and establishment methods for protected horticultural crops</p> <p>B2 Maintaining protected horticultural crops</p> <p><b>Unit 28 Routine Plant Management</b></p> <p>A1 Establishing plants</p> <p>A2 Requirements for growth</p> <p>C2 Feeding and watering requirements</p> <p>C3 Temperature, Ventilation and Plant Protection</p>	<p><b>Not covered:</b></p> <p>LO4 Understand the maintenance, harvesting and grading requirements of protected horticultural crops</p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	33	<b>Manage advanced nursery stock production</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 31 Nursery Stock Production</b></p> <p>A1 Plant suitability for field and container grown nursery stock</p> <p>A2 Site selection and growing conditions for nursery stock</p> <p>A3 Resource requirements</p> <p>A4 Factors affecting the management of plant growth and establishment</p> <p>B1 Planning for nursery stock production</p> <p>C1 Cultivation, establishment and harvest of nursery stock</p> <p><b>Unit 28 Routine Plant Management</b></p> <p>B1 Cultivation methods</p> <p>B2 Planting systems</p>	<p><b>Not covered:</b></p> <p>LO5 Be able to manage the health and growth of plants in nursery sales environments</p>
	34	<b>Understand the principles of organic crop production</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 22 Organic Agricultural Production</b></p> <p>A1 Organic principles</p> <p>A2 Soil processes</p> <p>A3 Soil fertility</p> <p>B1 Soil management</p> <p>B2 Crop rotation</p> <p>B3 Potential problems with crop systems</p> <p><b>Unit 33 Pests and Disease in Plants</b></p> <p>B2 Legislation relating to plant and tree health</p> <p>C2 Preventing and controlling plant pathogens</p>	<p>Note: UK specific legislation, organisations and standards have been removed.</p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	35	Prepare landscape and garden design briefs	<p><b>Partially covered in:</b></p> <p><b>Unit 44 Linear and Level Surveying</b></p> <p>A1 Methods, equipment and recording  A2 Potential issues and constraints  B2 Managing a survey and associated equipment  B3 Presenting outcomes of measure and surveys  C1 Interpreting and developing plans</p> <p><b>Unit 42 Landscape and Garden Design</b></p> <p>A1 Client needs analysis  A2 Legal requirements  A3 Key documents</p> <p><b>Unit 43 Constructing Decorative Landscape Features</b></p> <p>B1 Quantification and bills  B2 Contract documentation  B3 Planning a programme of works</p>	
	36	Undertake site surveying, levelling and setting out	<p><b>Fully covered in:</b></p> <p><b>Unit 44 Linear and Level Surveying</b></p> <p>A1 Methods, equipment and recording  A2 Potential issues and constraints  B1 Working safely  B2 Managing a survey and associated equipment  B3 Presenting outcomes of measures and surveys  C1 Interpreting and developing plans  C2 Setting out</p>	

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	37	Understand the principles and identify the signs of pests and diseases of trees	<b>Partially covered in:</b> <b>Unit 33 Pest and Disease in Plants</b> A1 Pests and diseases A2 Signs and symptoms of plant pests and diseases B1 Prevention and control strategies B2 Legislation relating to plant and tree health C1 Monitoring and surveillance methods C2 Preventing and controlling plant pathogens	<b>Not covered:</b> LO2 Be able to identify the signs and symptoms of common biotic and abiotic pathogens LO3 Understand common biotic pathogens  <i>Note: There is some coverage of the range from these outcomes.</i>
	39	Undertake retail merchandising in the land-based sector	<b>None</b>	

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	40	<b>Understand the principles of plant health and protection</b>	<p><b>Partially covered in:</b></p> <p><b>Unit 33 Pest and Disease in Plants</b></p> <p>A1 Pests and diseases  A2 Signs and symptoms of plant pests and diseases  B1 Prevention and control strategies  B2 Legislation relating to plant and tree health  C1 Monitoring and surveillance methods  C2 Preventing and controlling plant pathogens</p> <p><b>Unit 17 Crop Production</b></p> <p>B2 The principles of maintaining healthy crop</p> <p><b>Unit 19 Combinable Crop Production and Processing</b></p> <p>C3 Weeds, pest and disease control</p> <p><b>Unit 37 Maintaining the Health and Quality of Turf in Parks and Gardens</b></p> <p>A2 Factors the affect maintenance operations</p> <p><b>Unit 38 Protected Horticultural Crop Production</b></p> <p>B1 Site preparation and establishment for protected horticultural crops  B2 Maintaining protected horticultural crops</p> <p><b>Unit 39 Outdoor Horticultural Crop Production</b></p> <p>B2 Maintaining outdoor horticultural crops</p>	<p><b>Not covered:</b></p> <p>LO1 Be able to identify pests, diseases, disorders and weeds  LO2 Understand problems caused by pests, diseases, disorders and weeds</p> <p>Note: <i>There is some coverage of the range from these outcomes.</i></p>

2010 QCF Unit			International BTEC Level 3 unit to which 2010 unit relates	Areas of content in the 2010 unit not covered in the International unit
No.		Title		
Agri	Horti			
	41	<b>Understand the principles of sustainable development</b>	<b>Partially covered in:</b> <b>Unit 47 Sustainable and Renewable Land-based Practices</b> A1 Waste products arising from different agricultural and horticultural operations B1 Renewable energy for agriculture and horticulture	<b>Not covered:</b> LO1 Understand the principles of sustainable development LO3 Know how economics and society contribute to sustainable development

### BTEC International Level 3 units not mappable to QCF qualification

International Unit Number	International Unit Name
35	Participating in horticultural tasks at events
36	Resource and operations planning for event-based horticultural activities
40	Zoological horticulture
48	Specialist tourism