

BTEC Level 2 Technical Diploma in **AGRICULTURE**



Comparing unit content

BTEC Level 2 Technical Diploma in Agriculture
BTEC First in Agriculture (QCF – 2010)

Introduction to BTEC Level 2 Technical Diploma in Agriculture

This document maps the content of the new BTEC Level 2 Tech Diploma in Agriculture (RQF), shown in the left-hand column, against the content of the current BTEC First in Agriculture (QCF – 2010) in the right-hand column.

This mapping will help you transition from one specification to the other by highlighting where there are changes in content, particularly where there is new content which will need to be delivered to help your learners prepare for the new assessment.

In order to make the table easy to use and to demonstrate new content we have used a ‘traffic lights’ colour scheme as follows:

GREEN - covered. In this case the content in the Level 2 Technical is very close indeed to the existing BTEC First in Agriculture (QCF – 2010). In the right-hand column, the title of the relevant unit and learning outcome (LO) is identified.

YELLOW - partially covered. In this case the content is partially covered, perhaps in learning outcomes in more than one unit from the BTEC First in Agriculture (QCF – 2010). Where there is some additional knowledge, this is stated in the left-hand column under the heading **NEW CONTENT**

RED - not covered. In this case the content in the BTEC L2 Technical is new. It will appear in the left-hand column so you can see immediately what you will need to teach.

Purpose of the qualification

This qualification, which is 360 GLH, is for you if you want to start a career in agriculture. It is designed for post-16 students and can be taken as part of a wider study programme. It is an ideal qualification if you are intending to progress directly to employment within agriculture, or to an agriculture apprenticeship.

This qualification has been developed in consultation with employers in the agriculture sector to ensure that you learn the skills and behaviours that will give you the best opportunity to be successful when applying for work. There are five mandatory units that relate directly to the skills, knowledge and behaviours expected by employers in the agriculture sector.

The areas you will cover include:

- working safely
- an introduction to plant and soil science
- an agriculture work placement
- land-based machine operations
- farming and agricultural estate maintenance.

You will be able to add two optional units to the mandatory content, covering areas such as:

- livestock health
- livestock husbandry
- crop production
- grass and forage and crop production.

You will also enhance your broader skills in literacy and numeracy, which will be invaluable in supporting progression in other areas. In addition, you will develop transferable technical and practical skills in communication (working with colleagues, customers and clients), and research and project work (providing you with an opportunity to demonstrate your reflective practice by suggesting alternative approaches to a problem).

Qualification structure

Pearson BTEC Level 2 Technical Diploma in Agriculture				
Unit number	Unit title	GLH	Type	How assessed
1	Introduction to Working in Land-based Industries	60	Mandatory	Internal
2	Introduction to Plant and Soil Science	60	Mandatory	Internal
3	Agricultural Work Placement	60	Mandatory	Internal
4	Machinery Operations in Agriculture	60	Mandatory	Internal
5	Livestock Health	30	Mandatory	Internal
6	Livestock Husbandry	30	Mandatory	Internal
7	Crop Production	30	Mandatory	Internal
8	Grass and Forage Crop Production	30	Mandatory	Internal
9	Farming and Agricultural Estate Maintenance	60	Mandatory	Internal Synoptic

Covered
Partially covered
Not covered

BTEC Level 2 Technical Diploma in Agriculture	BTEC First in Agriculture (QCF – 2010)
Unit 1 – Introduction to Working in Land-based Industries	
Learning Aims	
A Investigate working in the land-based sector	
B Carry out safe working in the land-based sector	
C Demonstrate responsible environmental working practices	
Unit Content	
Knowledge and sector skills	
Learning aim A Investigate working in the land-based sector	
A1 Land use	<p>Unit 1: Undertake Work Related Experience in the Land based Industries LO1 Know the range and scope of job roles within an environmental and land-based industry</p> <p>Unit 2: Environmental and Land based Business LO1 Know an industry within the environmental and land-based sector LO2 Know the relevant legislation and codes of practice within the environmental and land-based sector LO3 Know common business operations</p>

Covered

Partially covered

Not covered

<p>A2 Diversification in land-based industries</p>	<p>Unit 2: Environmental and Land based Business LO1 Know an industry within the environmental and land-based sector LO2 Know the relevant legislation and codes of practice within the environmental and land-based sector LO3 Know common business operations</p>
<p>A3 Key job roles by industry</p>	<p>Unit 1: Undertake Work Related Experience in the Land based Industries LO1 Know the range and scope of job roles within an environmental and land-based industry</p> <p>Unit 2: Environmental and Land based Business LO1 Know an industry within the environmental and land-based sector LO2 Know the relevant legislation and codes of practice within the environmental and land-based sector LO3 Know common business operations</p>
<p>Learning aim B Carry out safe working in the land-based sector</p>	
<p>B1 Fundamentals of working safely</p>	<p>Unit 2: Environmental and Land based Business LO1 Know an industry within the environmental and land-based sector LO2 Know the relevant legislation and codes of practice within the environmental and land-based sector</p>
<p>B2 Working Safely</p>	<p>Unit 2: Environmental and Land based Business LO1 Know an industry within the environmental and land-based sector LO2 Know the relevant legislation and codes of practice within the environmental and land-based sector</p>

Covered

Partially covered

Not covered

	<p>Unit 5: Introduction to Land-based Machinery Operations LO1 Understand safe working principles when using equipment and machinery</p> <p>Unit 8: Participate in Providing Estate Maintenance LO1 Be able to select, transport and use a range of hand tools and equipment for estate maintenance LO4 Know how to work safely and minimise environmental damage.</p> <p>Unit 12: Introduction to Land-based Workshop Practice LO4 Understand land-based workshop health and safety requirements.</p>
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Learning aim C Demonstrate responsible environmental working practices

<p>C1 Waste Management</p>	<p>Unit 5: Introduction to Land-based Machinery Operations LO4 Be able to maintain land-based equipment and machinery</p> <p>Unit 8: Participate in Providing Estate Maintenance LO3 Be able to maintain surfaces or habitats LO4 Know how to work safely and minimise environmental damage.</p> <p>Unit 9: Conservation and Improvement of British Habitats LO4 Be able to improve a habitat.</p> <p>Unit 10: Introduction to the Principles of Land-based Machinery LO3 Be able to maintain engines on land-based machines.</p>
<p>C2 Sustainability</p>	<p>Unit 8: Participate in Providing Estate Maintenance LO4 Know how to work safely and minimise environmental damage.</p>
<p>C3 Environmental responsibilities</p>	<p>Unit 8: Participate in Providing Estate Maintenance LO4 Know how to work safely and minimise environmental damage.</p>

Covered

Partially covered

Not covered

Unit 2 – Introduction to Plant and Soil Science	
Learning Aims	
A Investigate plant structure, growth and development	
B Investigate plant life cycles and adaptations to the environment	
C Investigate soil characteristics and efforts on plant health	
Unit Content	
Knowledge and sector skills	
Learning aim A Investigate plant structure, growth and development	

A1 Plant structure	<p>Unit 6: Introduction to Animal and Plant Husbandry LO3 Understand the annual production cycles of locally important crops LO4 Know the requirements for maintaining the healthy growth of locally important crops.</p> <p>Unit 7: Introduction to Animal and Plant Biology LO1 Know the classification of organisms and the structure of the cell LO3 Know the main systems and structures in animals and plants</p>
A2 Plant processes	<p>Unit 7: Introduction to Animal and Plant Biology LO2 Understand the requirements for nutrition and growth of animals and plants LO3 Know the main systems and structures in animals and plants LO4 Understand the processes of reproduction and heredity in animals and plants.</p>

B Investigate plant life cycles and adaptations to the environment

B1 Plant growth and development

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

LO4 Know the requirements for maintaining the healthy growth of locally important crops.

Unit 7: Introduction to Animal and Plant Biology

LO2 Understand the requirements for nutrition and growth of animals and plants

LO3 Know the main systems and structures in animals and plants

LO4 Understand the processes of reproduction and heredity in animals and plants.

B2 Plant adaptations and modifications

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

LO4 Know the requirements for maintaining the healthy growth of locally important crops.

Unit 7: Introduction to Animal and Plant Biology

LO2 Understand the requirements for nutrition and growth of animals and plants

LO3 Know the main systems and structures in animals and plants

LO4 Understand the processes of reproduction and heredity in animals and plants.

C Investigate soil characteristics and efforts on plant health

C1 Soil characteristics

Unit 3: Introduction to Crop Establishment

LO1 Know the physiology of crops

LO2 Be able to investigate soil

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

Unit 11: Introduction to Grass and Forage Crop Production

LO1 Know the common grass and forage crops and the factors that affect their growth

Unit 14: Assist with Agricultural Crop Production

LO4 Be able to assist with growing, harvesting and storage of agricultural crops

C2 Soil textures and structure of cells

Unit 3: Introduction to Crop Establishment

LO1 Know the physiology of crops

LO2 Be able to investigate soil

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

C3 Soil water, PH and nutrients

Unit 3: Introduction to Crop Establishment

LO1 Know the physiology of crops

LO2 Be able to investigate soil

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

C4 Soil care

Unit 3: Introduction to Crop Establishment

LO1 Know the physiology of crops

LO2 Be able to investigate soil

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

Unit 11: Introduction to Grass and Forage Crop Production

LO1 Know the common grass and forage crops and the factors that affect their growth

Unit 14: Assist with Agricultural Crop Production

LO4 Be able to assist with growing, harvesting and storage of agricultural crops

Unit 3 – Agriculture Work Placement

Learning Aims

A Investigate and apply for an agriculture work placement

B Demonstrate work skills relevant to an agriculture work placement

C Review own agriculture work placement.

Unit Content

Knowledge and sector skills

Learning aim A Investigate and apply for an agriculture work placement

A1 Investigating a work placement

Unit 1 undertake work related experience in the land-based industries
LO1 know the range & scope of job roles within an environmental & land-based industry

A2 Applying for a work placement

Unit 1 undertake work related experience in the land-based industries
LO2 be able to use relevant documents & skills relating to work experience

Learning aim B Demonstrate work skills relevant to an agriculture work placement	
B1 Professional behaviours	<p>Unit 1 undertake work related experience in the land-based industries LO3 be able to plan & review self-development during work experience</p>
B2 Communication skills	<p>Unit 1 undertake work related experience in the land-based industries LO3 be able to plan & review self-development during work experience</p>
B3 Safe working around the farm	<p>Unit 4: Introduction to Farm Animal Production LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock</p> <p>Unit 5: Introduction to Land-based Machinery Operations LO1 Understand safe working principles when using equipment and machinery</p> <p>Unit 8: Participate in Providing Estate Maintenance LO1 Be able to select, transport and use a range of hand tools and equipment for estate maintenance LO3 Be able to maintain surfaces or habitats</p> <p>Unit 12: Introduction to Land-based Workshop Practice LO1 Be able to safely use commonly found hand and power tools for the maintenance and repair of land-based machinery and installations LO2 Be able to safely use basic welding and cutting equipment LO3 Be able to safely use basic maintenance and/or repair techniques on land-based machinery and installations LO4 Understand land-based workshop health and safety requirements.</p> <p>Unit 15: Introduction to Dairy and Beef Cattle Husbandry LO4 Be able to carry out routine health tasks on dairy and beef cattle.</p> <p>Unit 16: Introduction to Sheep Husbandry LO4 Be able to carry out routine animal husbandry and health tasks on sheep.</p>

Learning aim C Review own agriculture work placement

C1 Review work placement	Unit 1 undertake work related experience in the land-based industries LO4 be able to report on the work experience
C2 Self-development and areas for improvement	Unit 1 undertake work related experience in the land-based industries LO3 be able to plan & review self-development during work experience

Unit 4 – Machinery Operations in Agriculture

Learning Aims

A Explore machinery that can be used for agricultural activities, its purpose and operation	
B Prepare and maintain machines for agricultural activities	
C Carry out safe and responsible machine operation for routine agricultural activities	

Unit Content	
Knowledge and sector skills	
A Explore machinery that can be used for agricultural activities, its purpose and operation	
<p>A1 Agricultural machinery</p>	<p>Unit 5: Introduction to Land-based Machinery Operations LO1 Understand safe working principles when using equipment and machinery LO2 Be able to prepare land-based equipment and machinery for use LO3 Be able to operate land-based equipment and machinery</p> <p>Unit 10: Introduction to the Principles of Land-based Machinery LO1 Know the working principles of combustion engines</p> <p>Unit 12: Introduction to Land-based Workshop Practice LO1 Be able to safely use commonly found hand and power tools for the maintenance and repair of land-based machinery and installations LO2 Be able to safely use basic welding and cutting equipment LO3 Be able to safely use basic maintenance and/or repair techniques on land-based machinery and installations LO4 Understand land-based workshop health and safety requirements.</p> <p>Unit 13: Tractor Driving LO1 Know key components and operator controls on a tractor LO2 Know the relevant legislation and codes of practice for tractor driving</p> <p>Unit 14: Assist with Agricultural Crop Production LO3 Understand how crops are efficiently grown and harvested</p>

A2 Operational methods, engines and mechanics

Unit 5: Introduction to Land-based Machinery Operations

LO3 Be able to operate land-based equipment and machinery

LO4 Be able to maintain land-based equipment and machinery.

Unit 10: Introduction to the Principles of Land-based Machinery

LO1 Know the working principles of combustion engines

LO2 Know the maintenance requirements of machines

LO3 Be able to maintain engines on land-based machines.

Unit 12: Introduction to Land-based Workshop Practice

LO1 Be able to safely use commonly found hand and power tools for the maintenance and repair of land-based machinery and installations

LO2 Be able to safely use basic welding and cutting equipment

LO3 Be able to safely use basic maintenance and/or repair techniques on land-based machinery and installations

LO4 Understand land-based workshop health and safety requirements.

Unit 13: Tractor Driving

LO1 Know key components and operator controls on a tractor

LO2 Know the relevant legislation and codes of practice for tractor driving

LO3 Be able to carry out simple maintenance tasks and settings to a tractor

LO4 Be able to operate a tractor and attachments.

B Prepare and maintain machines for agricultural activities

B1 Prepare machinery

Unit 5: Introduction to Land-based Machinery Operations

- LO1** Understand safe working principles when using equipment and machinery
- LO2** Be able to prepare land-based equipment and machinery for use

Unit 10: Introduction to the Principles of Land-based Machinery

- LO1** Know the working principles of combustion engines
- LO2** Know the maintenance requirements of machines
- LO3** Be able to maintain engines on land-based machines.

Unit 12: Introduction to Land-based Workshop Practice

- LO1** Be able to safely use commonly found hand and power tools for the maintenance and repair of land-based machinery and installations
- LO2** Be able to safely use basic welding and cutting equipment
- LO3** Be able to safely use basic maintenance and/or repair techniques on land-based machinery and installations
- LO4** Understand land-based workshop health and safety requirements.

B2 Maintenance of machinery

Unit 5: Introduction to Land-based Machinery Operations

- LO4** Be able to maintain land-based equipment and machinery.

Unit 10: Introduction to the Principles of Land-based Machinery

- LO3** Be able to maintain engines on land-based machines.

Unit 12: Introduction to Land-based Workshop Practice

- LO3** Be able to safely use basic maintenance and/or repair techniques on land-based machinery and installations

	<p>LO4 Understand land-based workshop health and safety requirements.</p> <p>Unit 13: Tractor Driving LO3 Be able to carry out simple maintenance tasks and settings to a tractor</p>
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C Carry out safe and responsible machine Operation for routine agricultural activities

<p>C1 Operating machinery</p>	<p>Unit 5: Introduction to Land-based Machinery Operations LO3 Be able to operate land-based equipment and machinery</p> <p>Unit 10: Introduction to the Principles of Land-based Machinery LO1 Know the working principles of combustion engines LO2 Know the maintenance requirements of machines LO3 Be able to maintain engines on land-based machines.</p> <p>Unit 11: Introduction to Grass and Forage Crop Production LO3 Know how to operate livestock grazing systems</p> <p>Unit 12: Introduction to Land-based Workshop Practice LO1 Be able to safely use commonly found hand and power tools for the maintenance and repair of land-based machinery and installations LO2 Be able to safely use basic welding and cutting equipment LO3 Be able to safely use basic maintenance and/or repair techniques on land-based machinery and installations LO4 Understand land-based workshop health and safety requirements.</p> <p>Unit 13: Tractor Driving LO4 Be able to operate a tractor and attachments.</p>
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Unit 5 – Livestock Health

Learning Aims

A Monitor signs of good and ill health in livestock	
B Maintain health and wellbeing in livestock	
C Carry out measures for health promotion in livestock	

Unit Content

Knowledge and sector skills

Learning aim A Monitor signs of good and ill health in livestock

A1 Signs of good and ill health in livestock	<p>Unit 4: Introduction to Farm Animal Production LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock</p> <p>Unit 6: Introduction to Animal and Plant Husbandry LO1 Understand the requirements needed to maintain the health and welfare of farm animals LO2 Be able to provide food and water to production farm animals</p> <p>Unit 15: Introduction to Dairy and Beef Cattle Husbandry LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle LO4 Be able to carry out routine health tasks on dairy and beef cattle.</p> <p>Unit 16: Introduction to Sheep Husbandry LO2 Know the principles of sheep management LO3 Be able to carry out routine animal husbandry and health tasks on sheep.</p>
A2 The presence and impact of parasites on health	<p>Unit 4: Introduction to Farm Animal Production LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock</p> <p>Unit 6: Introduction to Animal and Plant Husbandry LO1 Understand the requirements needed to maintain the health and welfare of farm animals LO2 Be able to provide food and water to</p>

	<p>production farm animals</p> <p>Unit 15: Introduction to Dairy and Beef Cattle Husbandry LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle LO4 Be able to carry out routine health tasks on dairy and beef cattle.</p> <p>Unit 16: Introduction to Sheep Husbandry LO2 Know the principles of sheep management LO3 Be able to carry out routine animal husbandry and health tasks on sheep.</p>
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Learning aim B Maintain health and wellbeing in livestock

<p>B1 How to maintain good health in livestock</p>	<p>Unit 4: Introduction to Farm Animal Production LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock</p> <p>Unit 6: Introduction to Animal and Plant Husbandry LO1 Understand the requirements needed to maintain the health and welfare of farm animals LO2 Be able to provide food and water to production farm animals</p> <p>Unit 15: Introduction to Dairy and Beef Cattle Husbandry LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle LO4 Be able to carry out routine health tasks on dairy and beef cattle.</p> <p>Unit 16: Introduction to Sheep Husbandry LO2 Know the principles of sheep management LO3 Be able to carry out routine animal husbandry and health tasks on sheep.</p>
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B2 Routine husbandry methods and variation in needs

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO2 Know the principles of sheep management

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

B3 Nutritional requirements and variation in needs

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO2 Know the principles of sheep management

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

Learning aim C Carry out measures for health promotion in livestock

C1 The different ways to promote health in livestock

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO2 Know the principles of sheep management

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

C2 The importance of the link between health promotion and record keeping

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO2 Know the principles of sheep management

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

Covered

Partially covered

Not covered

Unit 6 – Livestock Husbandry	
Learning Aims	
A Understand the current welfare needs of farm livestock	
B Handle farm livestock to meet current industry and legislative standards	
C Carry out routine farm livestock husbandry duties	
Unit Content	
Knowledge and sector skills	
Learning aim A Understand the current welfare needs of farm livestock	
<p>A1 Breeds of native and non-native farm livestock species</p>	<p>Unit 4: Introduction to Farm Animal Production LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock</p> <p>Unit 6: Introduction to Animal and Plant Husbandry LO1 Understand the requirements needed to maintain the health and welfare of farm animals LO2 Be able to provide food and water to production farm animals</p> <p>Unit 15: Introduction to Dairy and Beef Cattle Husbandry LO1 Know the common production systems used in dairy and beef cattle farming LO2 Know the principles of cattle management LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle LO4 Be able to carry out routine health tasks on dairy and beef cattle.</p> <p>Unit 16: Introduction to Sheep Husbandry LO1 Know the common production systems used in sheep farming LO2 Know the principles of sheep management LO3 Be able to carry out routine animal husbandry and health tasks on sheep.</p>

A2 Requirements when working with livestock

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO1 Know the common production systems used in dairy and beef cattle farming

LO2 Know the principles of cattle management

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO1 Know the common production systems used in sheep farming

LO2 Know the principles of sheep management

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

Learning aim B Handle farm livestock to meet current industry and legislative standards

B1 Equipment and personal protective equipment (PPE)

Unit 2: Environmental and Land based Business

LO1 Know an industry within the environmental and land-based sector

LO2 Know the relevant legislation and codes of practice within the environmental and land-based sector

B2 Practical animal handling and restraint techniques

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

B3 Practical use of handling and restraint equipment

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

Learning aim C Carry out routine farm livestock husbandry duties

C1 Routine accommodation

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

C2 Routine watering and feeding

Unit 4: Introduction to Farm Animal Production

LO3 Be able to carry out routine husbandry and animal health duties on common farm livestock

Unit 6: Introduction to Animal and Plant Husbandry

LO1 Understand the requirements needed to maintain the health and welfare of farm animals

LO2 Be able to provide food and water to production farm animals

Unit 15: Introduction to Dairy and Beef Cattle Husbandry

LO3 Be able to carry out routine livestock husbandry on dairy and beef cattle

LO4 Be able to carry out routine health tasks on dairy and beef cattle.

Unit 16: Introduction to Sheep Husbandry

LO3 Be able to carry out routine animal husbandry and health tasks on sheep.

Covered

Partially covered

Not covered

Unit 7 – Crop Production

Learning Aims

A Explore the preparation and establishment of crop species	
B Maintain the growth of crops during the growing season	
C Prepare for harvesting and storage of crops	

Unit Content

Knowledge and sector skills

Learning aim A Explore the preparation and establishment of crop species

<p>A1 The different types of crops</p>	<p>Unit 3: Introduction to Crop Establishment</p> <p>LO1 Know the physiology of crops</p> <p>LO2 Be able to investigate soil</p> <p>LO3 Be able to prepare and cultivate land for planting</p> <p>LO4 Understand the importance of crop nutrients</p> <p>LO5 Be able to establish crops.</p> <p>Unit 6: Introduction to Animal and Plant Husbandry</p> <p>LO3 Understand the annual production cycles of locally important crops</p> <p>LO4 Know the requirements for maintaining the healthy growth of locally important crops.</p> <p>Unit 11: Introduction to Grass and Forage Crop Production</p> <p>LO1 Know the common grass and forage crops and the factors that affect their growth</p> <p>LO2 Know how to establish and maintain the production of grass and forage crops</p> <p>Unit 14: Assist with Agricultural Crop Production</p> <p>LO1 Know agricultural crops and their growth stages</p> <p>LO2 Know common crop weeds, pests and diseases</p>
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A2 Preparation and establishment of crops

Unit 3: Introduction to Crop Establishment

LO3 Be able to prepare and cultivate land for planting

LO4 Understand the importance of crop nutrients

LO5 Be able to establish crops.

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

LO4 Know the requirements for maintaining the healthy growth of locally important crops.

Unit 11: Introduction to Grass and Forage Crop Production

LO2 Know how to establish and maintain the production of grass and forage crops

LO3 Know how to operate livestock grazing systems

LO4 Be able to utilise grass and forage crops

Unit 14: Assist with Agricultural Crop Production

LO1 Know agricultural crops and their growth stages

LO2 Know common crop weeds, pests and diseases

LO3 Understand how crops are efficiently grown and harvested

LO4 Be able to assist with growing, harvesting and storage of agricultural crops.

Learning aim B Maintain the growth of crops during the growing season

B1 Monitor and maintain the growth and development of crops

Unit 3: Introduction to Crop Establishment

LO3 Be able to prepare and cultivate land for planting

LO4 Understand the importance of crop nutrients

LO5 Be able to establish crops.

Unit 11: Introduction to Grass and Forage Crop Production

LO1 Know the common grass and forage crops and the factors that affect their growth

LO2 Know how to establish and maintain the production of grass and forage crops

LO3 Know how to operate livestock grazing systems

LO4 Be able to utilise grass and forage crops

Unit 14: Assist with Agricultural Crop Production

LO1 Know agricultural crops and their growth stages

LO2 Know common crop weeds, pests and diseases

LO3 Understand how crops are efficiently grown and harvested

LO4 Be able to assist with growing, harvesting and storage of agricultural crops.

B2 Plant nutrient requirements

Unit 3: Introduction to Crop Establishment

LO4 Understand the importance of crop nutrients

Unit 7: Introduction to Animal and Plant Biology

LO2 Understand the requirements for nutrition and growth of animals and plants

LO3 Know the main systems and structures in animals and plants

Learning aim C Prepare for harvesting and storage of crops

C1 Prepare and monitor storage area

Unit 3: Introduction to Crop Establishment

LO5 Be able to establish crops.

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

LO4 Know the requirements for maintaining the healthy growth of locally important crops.

Unit 11: Introduction to Grass and Forage Crop Production

LO2 Know how to establish and maintain the production of grass and forage crops

Unit 8 – Grass and Forage Crop Production

Learning Aims

A Explore the preparation and establishment of forage crops

B Maintain the growth of forage crops for grazing or conservation

C Prepare for harvesting and storage of forage crops

Unit Content

Knowledge and sector skills

Learning aim A Explore the preparation and establishment of forage crops

A1 The different types of grass and forage crops

Unit 3: Introduction to Crop Establishment

LO1 Know the physiology of crops

LO2 Be able to investigate soil

LO3 Be able to prepare and cultivate land for planting

LO4 Understand the importance of crop nutrients

LO5 Be able to establish crops.

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

LO4 Know the requirements for maintaining the healthy growth of locally important crops.

Unit 11: Introduction to Grass and Forage Crop Production

LO1 Know the common grass and forage crops and the factors that affect their growth

LO2 Know how to establish and maintain the production of grass and forage crops

Unit 14: Assist with Agricultural Crop Production

LO1 Know agricultural crops and their growth stages

LO2 Know common crop weeds, pests and diseases

A2 Preparation and establishment of forage crops

Unit 3: Introduction to Crop Establishment

LO3 Be able to prepare and cultivate land for planting

LO4 Understand the importance of crop nutrients

LO5 Be able to establish crops.

Unit 6: Introduction to Animal and Plant Husbandry

LO3 Understand the annual production cycles of locally important crops

LO4 Know the requirements for maintaining the healthy growth of locally important crops.

Unit 11: Introduction to Grass and Forage Crop Production

LO2 Know how to establish and maintain the production of grass and forage crops

LO3 Know how to operate livestock grazing systems

LO4 Be able to utilise grass and forage crops

Unit 14: Assist with Agricultural Crop Production

LO1 Know agricultural crops and their growth stages

LO2 Know common crop weeds, pests and diseases

LO3 Understand how crops are efficiently grown and harvested

LO4 Be able to assist with growing, harvesting and storage of agricultural crops.

Learning aim B Maintain the growth of forage crops for grazing or conservation

B1 Monitor the growth and development of forage crops

Unit 3: Introduction to Crop Establishment

LO3 Be able to prepare and cultivate land for planting

LO4 Understand the importance of crop nutrients

LO5 Be able to establish crops.

Unit 11: Introduction to Grass and Forage Crop Production

LO1 Know the common grass and forage crops and the factors that affect their growth

LO2 Know how to establish and maintain the production of grass and forage crops

LO3 Know how to operate livestock grazing systems

LO4 Be able to utilise grass and forage crops

Unit 14: Assist with Agricultural Crop Production

LO1 Know agricultural crops and their growth stages

LO2 Know common crop weeds, pests and diseases

LO3 Understand how crops are efficiently grown and harvested

LO4 Be able to assist with growing, harvesting and storage of agricultural crops.

B2 Maintenance of healthy forage crops during the grazing season

Unit 3: Introduction to Crop Establishment

LO3 Be able to prepare and cultivate land for planting

LO4 Understand the importance of crop nutrients

LO5 Be able to establish crops.

Unit 11: Introduction to Grass and Forage Crop Production

LO1 Know the common grass and forage crops and the factors that affect their growth

	<p>LO2 Know how to establish and maintain the production of grass and forage crops</p> <p>LO3 Know how to operate livestock grazing systems</p> <p>LO4 Be able to utilise grass and forage crops</p> <p>Unit 14: Assist with Agricultural Crop Production</p> <p>LO1 Know agricultural crops and their growth stages</p> <p>LO2 Know common crop weeds, pests and diseases</p> <p>LO3 Understand how crops are efficiently grown and harvested</p> <p>LO4 Be able to assist with growing, harvesting and storage of agricultural crops.</p>
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Learning aim C Prepare for harvesting and storage of forage crops

<p>C1 Prepare and monitor storage areas</p>	<p>Unit 3: Introduction to Crop Establishment</p> <p>LO5 Be able to establish crops.</p> <p>Unit 6: Introduction to Animal and Plant Husbandry</p> <p>LO3 Understand the annual production cycles of locally important crops</p> <p>LO4 Know the requirements for maintaining the healthy growth of locally important crops.</p> <p>Unit 11: Introduction to Grass and Forage Crop Production</p> <p>LO2 Know how to establish and maintain the production of grass and forage crops</p>
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Unit 9 – Farming and Agricultural Estate Maintenance

Learning Aims

A Carry out inspections to plan routine maintenance, repair and installation tasks for livestock and crop farming

B Select and prepare materials, tools and equipment for routine maintenance, repair and installation for livestock and crop farming

C Undertake routine maintenance, repair and installation tasks for livestock and crop farming

Unit Content

Knowledge and sector skills

Learning aim A Carry out inspections to plan routine maintenance, repair and installation tasks for livestock and crop farming

A1 Inspecting for repair, maintenance and installation needs

Unit 8: Participate in Providing Estate Maintenance

LO1 Be able to select, transport and use a range of hand tools and equipment for estate maintenance

LO2 Be able to maintain estate boundaries

LO3 Be able to maintain surfaces or habitats

LO4 Know how to work safely and minimise environmental damage

Unit 9: Conservation and Improvement of British Habitats

LO4 Be able to improve a habitat.

A2 Plan, repair, maintenance and installation needs

Unit 8: Participate in Providing Estate Maintenance

LO1 Be able to select, transport and use a range of hand tools and equipment for estate maintenance

LO2 Be able to maintain estate boundaries

LO3 Be able to maintain surfaces or habitats

LO4 Know how to work safely and minimise environmental damage

Learning aim B Select and prepare materials, tools and equipment for routine maintenance, repair and installation for livestock and crop farming

B1 Selecting and preparing tools, equipment and materials

Unit 8: Participate in Providing Estate Maintenance

LO1 Be able to select, transport and use a range of hand tools and equipment for estate maintenance

LO2 Be able to maintain estate boundaries

LO3 Be able to maintain surfaces or habitats

LO4 Know how to work safely and minimise environmental damage

B2 Health and safety

Unit 2: Environmental and Land based Business

LO1 Know an industry within the environmental and land-based sector

LO2 Know the relevant legislation and codes of practice within the environmental and land-based sector

Unit 8: Participate in Providing Estate Maintenance

LO4 Know how to work safely and minimise environmental damage

Learning aim C Undertake routine maintenance, repair and installation tasks for livestock and crop farming

C1 Carry out maintenance repair and installation tasks

Unit 8: Participate in Providing Estate Maintenance

LO1 Be able to select, transport and use a range of hand tools and equipment for estate maintenance

LO2 Be able to maintain estate boundaries

LO3 Be able to maintain surfaces or habitats

LO4 Know how to work safely and minimise environmental damage

Unit 9: Conservation and Improvement of British Habitats

LO4 Be able to improve a habitat.

C2 Review maintenance, repair and installation tasks

Unit 8: Participate in Providing Estate Maintenance

LO1 Be able to select, transport and use a range of hand tools and equipment for estate maintenance

LO2 Be able to maintain estate boundaries

LO3 Be able to maintain surfaces or habitats

LO4 Know how to work safely and minimise environmental damage

Unit 9: Conservation and Improvement of British Habitats

LO4 Be able to improve a habitat.