

Agriculture, Environmental and Animal Care: Animal care and management

T Level outline content: draft version for consultation

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Introduction

Outline content

This outline content has been produced by <u>T Level panels</u> of employers, professional bodies and providers, and is based on the same standards as those used for apprenticeships. The outline content will form the basis of the specifications for T Level Technical Qualifications, which will be developed by awarding organisations for approval by the Institute for Apprenticeships and Technical Education. One awarding organisation will be appointed to develop and deliver each Technical Qualification following a procurement process.

Colleges and other education and training providers will decide how to structure the T Level courses they offer, based on the qualification specifications. This will enable them to deliver the study programme's mandatory components in the most effective way for students.

A T Level programme consists of a Technical Qualification, substantial industry placement, English and maths, and other occupation-specific requirements where essential for entry to skilled employment. This outline content relates solely to the Technical Qualification part of a T Level programme.

Further information about T Levels is available on the website of the Institute for Apprenticeships and Technical Education here: <u>www.instituteforapprenticeships.org</u>, and at <u>www.education.gov.uk</u>.

Agriculture, Environmental and Animal Care: Animal Care and Management

Awarding organisations will need to ensure that students have an up-to-date knowledge of the legal and regulatory obligations relating to employment in the occupations relevant to the T Level and understand the practical implication of these on their work.

Maths, English and digital skills are set out in a separate annex. Awarding organisations should integrate these within the qualification so that they are applied in occupationally relevant contexts.

Core content

The core content relates to the whole route 'route core'. The core knowledge and understanding is assessed through an examination and core skills through a practical employer-set project.

The core knowledge and understanding focuses on the students' knowledge and understanding of contexts, concepts, theories and principles relevant to the T Level. This could include, where appropriate, assessment of knowledge and understanding relevant to the route and the pathway.

The employer-set project provides the opportunity to develop and apply a minimum range of core skills important for employability. The allocation of content to each type of assessment will need to be approved by the Institute for Apprenticeships and Technical Education.

Core knowledge and understanding

Element	Content
Sustainability	Key requirements of environmental legislation
	 associated obligations for businesses, their employees and other stakeholders.
	 Key government environmental policies and initiatives the opportunities and risks they bring to the agriculture, environmental and animal care sector the associated environmental performance measure e.g. water and energy use.
	 The concept of sustainable development sustainable development goals at a macro (national and international) and micro (business) level types of sustainable solutions to meet development goals including social, environmental, economic and human concerns and expectations of key stakeholders.
	 The concept of climate change and scientific views on causes and impacts the impact of increased rainfall and higher temperatures upon environments, conservation practices, habitats, flora, fauna and water levels policies and initiatives to manage these changes at national and local level.
	 Waste management principles (e.g. recycle, reduce, reuse) key requirements of associated legislation types of materials that require specific actions (e.g. asbestos) measures in place by the sector and organisation to meet requirements.
Biosecurity	 Principles of biosecurity factors influencing biosecurity e.g. international trade, new technologies biosecurity risk factors in different types of agriculture, environmental and animal care situations biosecurity measures including inspection, monitoring, regulation, passports, isolation and their importance in

	maintaining health production and service	
	environments.	
Working in the	Employment rights and responsibilities (e.g. union	
agriculture,	membership, working hours) of the employer and employee	
environmental	 expectations of professional conduct and behaviours in 	
and animal care	the workplace (including punctuality, cleanliness,	
sector	 respect for own and others work and work area, respect for the land, property and belongings of others (including animals) typical activities that can lead to disciplinary and 	
	grievance procedures	
	 how these expectations are met and demonstrated by 	
	employees.	
	Principles of effective teamwork	
	 how teams are developed, including the role of the team leader 	
	 team dynamics and how they are managed, and 	
	behaviours influenced	
	 qualities of effective team members and team leaders 	
	and how these qualities are demonstrated	
	 the importance of team work to team and project 	
	performance	
	 techniques used to monitor and manage individual and 	
	team performance e.g. goal and objective setting,	
	performance management reviews, providing	
	constructive feedback	
	 techniques used to manage team conflict (e.g. 	
	mediation) and when and how they should be applied.	
	Progression opportunities which exist within the agriculture,	
	environmental and animal care sector	
	• the purpose of continuing professional development	
	(CPD) and the benefits it brings to the individual and	
	their employer	
	methods of personal and professional development (e.g.	
	coaching, independent research) and the types of	
	organisations that can provide this type of support,	
	including professional bodies	
	 their suitability for achieving planned outcomes. 	
	1	

Ethics	 Ethical principles (e.g. honesty, transparency, justice) how these are used in codes of conduct, employment terms and conditions and workplace policies how these are represented by ethical behaviours how these are incorporated into business ethics how these impact on business operations, including interaction with stakeholders and the supply chain.
Supply Chain	 The supply chain different types of organisations involved and their role different ways in which the supply chain is sequenced and operates implications of failing to meet supply chain demands environmental impact of the supply chain including whole life cycle of a product types of procurement (e.g. competitive bidding, direct purchase) and their suitability for different situations.
	 Principles of stock management (including stock rotation, storage, conditions, monitoring stock levels, ordering stock, dealing with deliveries, maintaining records) how they are applied in different types of business implications to businesses of ineffective processes.
Business	 The types of business organisations e.g. sole trader, partnership, limited company, not for profit common business structures and hierarchies the financial, legal and commercial implications of type of business typical organisational policies and their relationship to legislation types of business objectives and values associated with different business structures. The principles of enterprise skills e.g. risk taking, innovation, resilience how they are applied to develop business growth and change including sales opportunities and diversification of the business types of business risk (e.g. financial, reputational) and
	risk management methods that can be deployed. How businesses measure success (including Key Performance Indicators (KPIs), Service Level Agreements (SLAs), benchmarking, supply chain requirements)

	 the information used to determine if success measures 	
	are met	
	 quality standards, quality control and quality assurance 	
	\circ their purpose, differences and application to	
	organisations quality standards expected by	
	internal and external stakeholders and	
	associated quality assurance requirements e.g.	
	audits.	
	The principles of project management (including purpose and	
	scope of the project, milestones and timescales, supply chain,	
	people management, resources, budgeting).	
Equality	Characteristics protected by equality legislation	
	Factors to consider (including equality legislation, cultural	
	differences, religious needs) when working with people from	
	diverse backgrounds and cultures	
	 how to show empathy and respect to those from 	
	different backgrounds and cultures to our own	
	acceptable and unacceptable behaviours and language.	
Communication	Different types of communication (including verbal and non-	
••••••	verbal)	
	 the formats used for the types of communication (e.g. 	
	business reports, emails, letters, websites) and	
	associated business conventions	
	 the types and value of images and visual aids to support written text and oral presentations 	
	written text and oral presentations	
	their suitability for different purposes and audiences the importance of english language hady language and	
	the importance of spoken language, body language and tage in communication and how each is wood to communication.	
	tone in communication and how each is used to convey	
	different messages to different audiences for different	
	purposes	
	the benefits and limitations of social media including risk	
- • • • • •	of misuse, promoting the business.	
Relationship	Principles of customer care (including first impressions,	
Management	representing business and self, supporting customers, the difference between customer wants and needs, the importance	
of accurate knowledge, working to an expected timescale)		
	 how these can be applied when dealing with different stakeholders, including internal customers 	
	 legal requirements (including legislation relating to 	
	consumer protection) when interacting with different	
	types of customers and customer relationships including	
	business to business (B2B)	
	 how these can be applied when dealing with different stakeholders, including internal customers legal requirements (including legislation relating to consumer protection) when interacting with different types of customers and customer relationships including 	

	 typical procedures used to deal with customer disputes and complaints, including escalation to relevant individuals and departments how to apply customer service principles and the benefits to the individual (e.g. increased motivation, positive feedback) and business (e.g. customer loyalty, customer confidence). 	
	Roles of different stakeholders including internal and external	
	customers	
	their expectations	
	 interrelationships between stakeholders. 	
Finance	The concept of profit	
	• types of profit (including net and gross) and significance of each to business success	
	 types of cost incurred by business (products, ancillary products, types of overheads, labour), their classifications (direct, indirect, fixed, variable) 	
	 measures used to reduce costs and implications of 	
	using these to profitability, reputation and quality	
	 types of taxation (including payroll, business) 	
	 how costs and revenue are forecast 	
	how profit is calculated.	
Health and Safety	Key requirements of health and safety legislation e.g. for lone working, for safe manual handling	
	 the respective duties imposed on employees and employers 	
	 the importance of taking personal responsibility for health and safety of self and others 	
	 the techniques and methods used to comply with legislation e.g. use of Personal Protective Equipment (PPE). 	
	The purpose of risk assessments	
	typical structures and content	
	 how they are developed and used 	
	• implications for poor development and application.	
	Hazards and risks associated with working in the agriculture, environmental and animal care sector (e.g. working with hazardous materials, lone working)	

	 typical control measures in place to minimise risks, including the types of PPE used, fatigue and stress management for lone workers. 	
	Procedures to follow when dealing with emergency situations	
	e.g. spilt cleaning materials, slurry exposure, flooding.	
Information and	Key requirements of legislation relating to the security of	
data	information and data	
	 types of information and data protected by legislation including client data, intellectual property 	
	 methods used by businesses to manage information 	
	and data including. version control, access controls, indexing, cyber security.	

Employer-set project

The employer-set project ensures students have the opportunity to combine core knowledge and skills to develop a substantial piece of work in response to an employer-set brief. The employer-set project forms part of the Technical Qualification and is a separate part of the T Level programme to the Industry Placement.

To ensure consistency in project scope and demand, awarding organisations will develop assessment objectives, which require students to:

- plan their approach to meeting the brief
- apply core knowledge and skills as appropriate
- select relevant techniques and resources to meet the brief
- use maths, English and digital skills as appropriate
- realise a project outcome and review how well the outcome meets the brief

The awarding organisation will work with a relevant employer or employers, to devise a set brief that:

- ensures a motivating starting point for students' projects, for example, a real-world problem to solve
- ensures students can generate evidence that covers the assessment objectives
- is manageable for providers to deliver
- is officially approved by the awarding organisation and employer

For Animal Care and Management, in achieving the assessment objectives and meeting the brief, students must demonstrate the following core skills:

- Analysing:
 - e.g. identifying common features of data obtained on options to develop a new product or service, classifying and organising data into types, discerning patterns.
- Communication: using a range of communication methods tailored to the audience
 - e.g. using visual and oral methods to engage an audience with proposal for improving representation and diversity in the sector.
- Critical Thinking:
 - e.g. questioning information and data, evaluating pros and cons of developing the business to meet animal care accreditation criteria.
- Decision making:
 - e.g. identifying likely impact if biosecurity plan in the business and using evidence to substantiate conclusions.
- Investigating:
 - e.g. developing search criteria /queries for secondary research and designing and carrying out surveys for primary research into the opportunities to develop a business for animal assisted therapies.
- Working in a team:
 - e.g. developing and implementing a digital marketing plan for the introduction of a new product or service.

Occupational Specialist Content

Specialist content is structured into different occupational specialisms, which correspond to the apprenticeship standards listed on the relevant occupational map. Occupational specialisms ensure students develop the knowledge and skills necessary to achieve a level of competence needed to enter employment in the occupational specialism, and are organised around 'performance outcomes' that indicate what the student will be able to do, as a result of learning and applying the specified knowledge and skills.

There are some content areas that are included in both the Core and Occupational Specialism sections, this is intentional. Where in Core, it is because it is content that is applicable to all Agriculture, Environmental and Animal Care students, regardless of the occupational specialism. If the same content is also in the Occupational Specialism, it is because the knowledge and skills need to be developed within the context of the Performance Outcome. In the occupational specialism, it is therefore likely to require different content to reflect the Performance Outcome.

Occupational Specialist Content

Occupational Specialism: Animal Care and Management

Performance Outcome 1: Optimise health and welfare of animals

Students must learn about a range of mammals, birds, herptiles and invertebrates through the knowledge. They must demonstrate their skills of working with a mammal and one other type of animal.

Knowledge Specific to Performance	Skills
Outcome	
	 Health check identify animals lift animals place animals down place animals within a 'container' manipulate animal bodily parts safely with consideration for animal emotion fit restraint equipment restrain animals take animals' temperature monitor animals' pulse check animals for signs of 'damage' check animals for signs of 'disrepair' check animals (body parts – eyes, ears, teeth, gums, genitals) assess animals' behaviour weigh (or measure) animals brush to encourage health body condition score an animal use an animal's flight zone to create movement report animal information and
Types of emergency situations that may be encountered in different types of animal care providers.	data. Administer treatment
Animal biology	 apply a bandage to an animal's limb

 The structure, function and control of bodily systems and key adaptations of different taxa including digestive, reproductive, respiratory, cardiovascular and nervous systems how these systems affect health and welfare. The classification of taxa (to species) and the implications for animal care and the implications for reporting and record keeping. The natural behaviour (including eating habits, sleeping habits, social behaviour, lifecycles, ecological niche) of different types of animals and breeds and how the knowledge can be used to best optimise their health and welfare. Types of nutrients required by animal species how they may change over different life stages additional supplements and their sources how nutrients and supplements are used to manage weight how now foods and water are presented to animals to reflect natural feeding behaviour. 	 remove discharge apply topical treatments administer tablets. Prepare feed weigh food prepare food e.g. chop, grate measure prepared food with precision inspect food items for signs of spoilage or disease. Use questioning techniques (e.g. open questions, probing questions) to obtain and clarify information on an animal. Model appropriate behaviours. Apply appropriate force when restraining animals e.g. when moving animals, when preparing animals for transportation. Demonstrate physical dexterity with delicacy. Apply bio security controls e.g. for infection.
How foods are safely and hygienically stored, formulated, prepared, and delivered. Animal welfare	

The animal welfare frameworks (including freedoms, needs and domains) and legislation

- best practice in ensuring they are implemented when optimising health and welfare of animals
- implications to health and welfare animals of non-compliance.

Techniques for safe and welfare orientated animal handling including capture and restraint.

Different ways that can be used to identify animals (e.g. sex determination), their suitability in different situations and their impact on the health and welfare of the animal.

Social needs of animals (e.g. social grouping), how they may vary at different life stages, different ways in which they can be met and how they affect the health and welfare of animals.

Physical, clinical and behavioural signs of good and poor health and welfare and how they vary according to life stage.

Techniques (including observation, clinical tests, weighing) used to assess health and welfare of animals

- how they are applied
- their suitability for different animals and environments
- sensitivities and perceptions of key stakeholders when carrying out assessments
- the tools, equipment and materials required for use.

Techniques used for preventative health care (including grooming, vaccinations) the

health care issue they prevent and how they are applied.

Methods of taking samples for health assessment including correct storage, hygiene/biosecurity and record keeping.

Opportunities for animals to be active that can be provided for different animal species

- how it may vary according to needs including life and health stages
- how they can be applied in different environments
- the benefits it brings
- the types of hazards that may be encountered through activities.

The principles and methods for the movement and transportation of animals

- the factors to be considered for the most suitable approach e.g. species, duration, animal welfare considerations, health and safety, legislation
- the types of equipment that might be required e.g. carry cage, crate
- the techniques used minimise stress to the experience
- how these are applied
- the effects these have on animal health and welfare.

Ethics of human-animal interaction with animals, the freedoms and opportunities that are available and restricted and how these are applied when optimising the health and welfare of animals in different environments.

Procedures for managing stock of veterinary medicines (including stock levels, stock ordering, storage).

Techniques used to administer medicines and their suitability for different purposes.

Legal requirements of medical procedures that can be undertaken by non-qualified staff and how to apply first aid to animals e.g. wound management.

Relationship management/customer service/ communication

Types of data and information (including social media) created, retrieved and recorded for different types of stakeholders

- procedures used to manage information and data, including their security
- techniques used to interpret information and data
- how information and data is used to organise schedules, prioritise tasks
- implications for misuse.

Methods of communication used to convey and receive information and their suitability for different purposes.

Key local, regional, national and international stakeholders for different animal care environments, their mission, roles and rights and implications for animal care providers.

Principles of customer service.

Performance Outcome 2: Optimise animal environments to meet their needs

Students must develop knowledge about a range of mammals, birds, herptiles and invertebrates.

Students are not required to demonstrate any skills working directly with animals for this performance outcome. Students can monitor and determine animal needs and current behaviours through direct observation, a video, images, transcripts, reports or other formats. They can use the information from these sources to support decision making regarding the environment required for the animal. They must develop skills needed to optimise the environment to maximise animal welfare.

Knowledge Specific to Performance	Skills
Outcome	
 Health, safety and the environment How organisational policies and procedures are designed to meet current legislation including health and safety legislation (e.g. COSHH, manual handling) Hazards associated with optimising animal environments (including zoonosis, injuries), associated risks organisational and personal control measures used to manage risks the types and purpose of PPE available. Strategies and techniques for compliant and sustainable waste management and recycling and how these are applied in 	Measurement • monitor accommodation environmental conditions e.g. temperature, • measure the accommodation environment • measure resources e.g. bedding area, building materials. Cleaning • sterilise equipment • classify waste • prepare waste for disposal • disinfect accommodation areas • apply bedding/substrate • clean food and water receptacles • clean accommodation environment • mix chemicals • prepare tools and materials for
 different animal care environments. Animal biology The structure, function and control of bodily systems and key adaptations of different taxa including digestive, reproductive, respiratory, cardiovascular and nervous systems 	storage. Construction maintenance • install accommodation fixtures and fittings • use tools and equipment effectively to carry out tasks. Enrichment
	create enrichment

 how these systems affect health, welfare and environment requirements.

The natural habitats (including environmental parameters (e.g. temperature, humidity, pH and UV) of different types of animals and how the knowledge can be used to best optimise their environment e.g. quiet environments to meet psychological needs.

The natural behaviour including social behaviour and dynamics of different types of animals and how the knowledge can be used to best optimise their environment.

Animal welfare

The animal welfare frameworks (including freedoms, needs and domains) and legislation

- best practice in ensuring they are met in through their environment
- implications to animals of noncompliance.

The principles and techniques of animal environment housekeeping

- how these are applied
- products, tools and equipment used
- benefits and potential harms these can bring to animals when managing their environments.

The five categories of enrichment (environmental, social, cognitive, sensory, nutritional)

 the types of enrichment in an environment that can be used to enable animal natural behaviour to be displayed

- install enrichment
- monitor animal behaviour before enrichment.

Present a digital design for animal accommodation.

Assess a design for animal accommodation for potential adverse effects on the animal.

- enrichment items that can be used
- how enrichment can be evaluated.

Environment design

The principles of animal environment design including

- the need to facilitate best practice in human – animal interactions and minimise unintentional contact
- how to best meet the needs of the animals (e.g. places to hide, opportunities for exercise and exhibit natural behaviours)
- how to minimise potential health and safety hazards including toxic plants, fire, sharp objects and biohazards including poor waste disposal, access by other species
- components and furnishings to meet the needs of the various stakeholders and animals
- how the need to move animals is considered and managed in designs
- how animal locomotion is included in environmental design
- how to ensure design minimises animal fear and distress.

How to create animal environments designs including using digital software.

Techniques used to evaluate the animal environment (including enrichment) and its effect on animals.

Communication

Information about the environment needed by different stakeholders (e.g. visitors, vets, colleagues) and methods of communication needed to respond to those needs.

Т	ypes of data and information created,
re	etrieved and recorded and the
р	rocedures used to maintain their
s	ecurity.

Performance Outcome 3: Apply techniques to influence positive animal behaviour

Students must learn about a range of mammals, birds, herptiles and invertebrates through the knowledge. They must demonstrate their skills of working with a mammal and one other type of animal.

Skills
 Behaviour assessment identify signs of stress monitor animal behaviour. Risk assessment assess potential health and safety risks monitor health and safety risks. Training monitor an animal's behaviour respond to animal behaviour fit restraint equipment operate restraint equipment manipulate animal body parts lead an animal create a cue use markers apply reinforcement using precise and controlled movements use training aids safely and effectively apply appropriate tone make appropriate use of personal space and movement apply appropriate body language e.g. posture.

implementing activities to influence behaviour

 implications to health, welfare and behaviour of animals of noncompliance.

Techniques for safe and welfare- orientated animal handling.

Different ways that can be used to identify animals and their suitability to training.

Techniques to protect an animal from fear, including personal behaviour and how these are applied.

Animal behaviour

Characteristics and causes of natural, atypical, desirable and undesirable behaviour for a species and how these are used to determine training plans and monitoring requirements.

How required behavioural changes are identified (including through observation sampling techniques, scrutiny of records), the types of information provided and how these are used to support planning and evaluating impact of training.

The impact that nutrition (e.g. type of nutrients, diet, timing of food and water intake) can have on animal behaviour and how this can be managed to positively influence behaviour.

Relationship between environmental factors (e.g. bedding, noise), health, wellbeing, learning and positive behaviour and how this used to assess suitability of the animal for training and to develop and implement training plans. Social needs of animals, how they may vary at different life stages, different ways in which they can be met and how they affect the behaviour and potential for training of an animal.

Types of communication (including posture, vocalisations, body language) used by animals for different purposes and how this is used to monitor the response of animals to training.

Animal training

Principles of the design of the training environment and how these are applied to achieve specific objectives.

Learning theory

- including stimulus response learning (habituation and sensitisation)
- associative learning (classical and operant conditioning)
- higher learning (social/observational, latent and insight learning, cognition)
- types of reinforcement (positive and negative) and when they are appropriate to use
- reinforcement schedules
- the suitability of different techniques to meet different goals for different species and the potential effects on the animal.

Training plans

- types of training goals and how they are determined
- how to incorporate learning theory into training plans
- types of training aids and reinforcers suitable to support meeting training goals
- how they are incorporated into training plans

 how they are used to implement and 	
monitor the effectiveness of the	
animal response to the training.	
Ethics of training including the use of	
aversive strategies, coercion, deprivation,	
choice, opportunity, freedom.	
Communication	
Types of records used (e.g. ethograms,	
progress log) in animal training and	
behavioural monitoring and how they are	
used to support behavioural change.	
Methods of communication used to convey	
and receive information and their suitability	
for different purposes.	

Performance Outcome 4: Provide information researched on an animal to promote animal welfare and conservation

For this performance outcome the expectation is that students research an animal with which they are unfamiliar.

Knowledge Specific to Performance	Skills
Outcome	
Animal biology	Break down a complex task into
The classification of taxa (to species) and	individual steps.
the implications for animal care.	
	Sequence and prioritise steps.
The natural history of different types of	
animals including adaptations and how it	Allocate time and resources to steps.
can be used in the conservation of a	
species and breeds.	Optimise work processes.
Animal welfare and conservation The animal welfare frameworks (including	Identify search criteria.
freedoms, needs and domains) and	Identify questions to be answered.
legislation	identity questions to be answered.
 best practice in ensuring they are 	Validate information and data.
implemented when optimising health	validate information and data.
and welfare of animals	Assess suitability of information and data.
 implications to health and welfare 	
animals of non-compliance.	Organise data into usable forms.
Physical and behavioural signs of good and	Interpret mathematical diagrams.
poor health and welfare and how they	
arise.	Represent information and data using
	mathematical diagrams.
The principles movement of animals and	
transportation and how these are applied in	Create digital media.
conservation activities.	
	Edit digital media.
Ethics of human-animal interaction, the	
freedoms and opportunities that are	Input, process, manipulate and
available and restricted and how these are	interrogate data digitally.
applied in conservation activities.	
	Use digital tools to engage an audience.
Ethical concerns of the public and how	
actions of key stakeholders mitigate those	
concerns.	

The changing role of zoos and other national and international organisations (e.g. International Union for Conservation of Nature (IUCN), One Plan)_in conserving species and breeds and their habitats and techniques and actions that are used (e.g. IUCN red listing, ZSLs Edge programme, and Biodiversity Action Plan (BAPS)).

Techniques (e.g. direct observation, genetic mapping) and technologies (drones, GPS) used to assess the conservation status of a species and breeds and habitats

- how they are applied by key stakeholders
- factors that affect the need for conservation
- methodologies for resolving conservation issues including captive population management and its effectiveness (e.g. same sex groups, breed and cull)
- impact of conservation action and lack of action on biodiversity and ecosystems.

The importance of genetic diversity and the consequences of hybridisation and inbreeding.

Research

Hazards associated with undertaking primary research and presenting information to an audience

- associated risks
- organisational and personal control measures used to manage risks.

The importance of animal research, the types of research undertaken, key stakeholders involved in research and the

Convey technical information to different audiences e.g. technical and non-technical.

Present information and ideas orally to others.

Summarise information and ideas.

Synthesise information.

Create texts e.g. web page, report, abstracts.

Identify sources of information.

Develop search criteria/questions to be answered.

Gather relevant information and data.

Substantiate conclusions with evidence.

Manage own time to achieve objectives.

contribution they make to conservation and	
improved animal care and welfare.	
Principles of research design including	
hypothesis or question to be answered,	
ethics, information sources (authoritative,	
valid, reliable, ethics), research plan,	
methodologies (e.g. behavioural sampling	
techniques), recording of information.	
······································	
Techniques used to analyse and interpret	
information and data.	
Communication	
Information needs of different stakeholders	
and factors to be considered in meeting	
those needs.	
Methods of communication including digital	
media used to convey and receive	
information, tools, equipment and materials	
that can be used and their suitability for	
different purposes and audiences.	

Occupational Specialism: Equine Care and Management

Performance Outcome 1: Optimise the physical and psychological well-being of horses

Knowledge Specific to Performance	Skills
Outcome	
Safe Working Practices	Take temperature.
Key requirements of health, safety and	
security legislation, codes of practice and	Check respiration rate.
policies and their application to equine yards.	
	Check pulse rate.
Typical hazards encountered when optimising	
equine welfare, associated risks and control	Check body parts e.g. jaw
measures that are best applied.	mobility, hooves.
Key requirements of Cadea of Dreation (a r	Delaste hady far sizes of asis
Key requirements of Codes of Practice (e.g. DeFRA Code of Practice for the Welfare of	Palpate body for signs of pain.
Horses, Ponies and their Hybrids, National	Check hydration e.g. capillary and
Equine Welfare Council (NEWC) Code of	circulation refill test, skin elasticity.
Practice for Welfare Organisations involved in	
the Keeping of Horses, Ponies and Donkeys)	Apply medication orally with
and ethics and how they are applied when	syringe.
optimising the care of horses.	
	Calculate dosage of medication
Yard & Field Routines and Management	e.g. wormer.
Typical yard and field duties involved in	
managing the welfare of horses and how	Trot up for lameness.
these are organised and communicated.	
	Make up feed based on
Different types of rugs	information in a feed chart.
 their purposes and suitability for different situations 	Clean feed and drinking
 their application. 	equipment.
Principles of stock management (including	Provide forage to horses e.g. fill
stock rotation, storage conditions, monitoring	and hang a hay net, provide loose
stock levels, ordering stock, dealing with	hay in a field.
deliveries, maintaining records) and	
implications to the business and horses of	Clean feed room.
ineffective processes.	
	Apply manual handling techniques
Types of stabling (including foaling boxes)	when lifting and moving heavy

	equipment or materials e.g. feed
potential impacts on equine welfare	bags, hay bales.
including horses with atypical needs.	
P	Pick out hooves.
Different types of bedding	
their characteristics T	Γie quick release knot.
 their suitability to meet a variety of 	
horses needs B	Bath a horse including after care.
their disposal.	
A	Apply a rug.
Types of yard design	
	Prepare stable (e.g. provide
	enrichments, bedding) for a
• Impact of yard design on equine	specific purpose e.g. foaling, box
physical and psychological health and	est.
welfare.	
N	Muck out stable.
Types of grazing	
their characteristics	Manage waste.
 potential positive and negative impacts 	
on equine welfare.	Manage grassland
a	accommodation e.g. remove
The need for and techniques used to work in	aeces, check faeces.
an environmentally sustainable manner and	
how these are implemented	Assess a field for hazards e.g.
	aeces, damaged fencing,
The types of business that provide services	ooisonous plants.
and supplies to support the welfare of the	
horses	Provide enrichment.
how their services are procured	Present word a growcan flaar
 how their quality is monitored 	Present yard e.g. sweep floor, decobweb, store tools.
	lecobweb, store tools.
Principles of customer care and how these	Stack muck heap e.g. for disposal
are applied when dealing with different	of waste.
stakeholders.	J waste.
	Fit a head collar.
Information and data requirements of a yard	
(including financial, human resources) and	Apply restraint equipment for
the associated documents produced	eading a horse from the ground
	eading a noise noin the ground
Horse Anatomy, Physiology and Welfare	
The anatomy of the equine body	

 skeletal and muscular systems 	Lead a horse from one location to
including the lower limb and hoof	another e.g. to a horse walker.
 principles of conformation 	
 how the anatomy contributes to 	Release horse in a location e.g.
conformation	field.
 techniques used to assess 	
conformation	Catch a horse in a field.
 potential injuries and problems 	
resulting from anatomical issues	Record actions.
 common developmental issues in foals 	
	Create texts e.g. health
and growing youngstock.	assessment records.
The physiology of the equine digestive,	Work with proportion (e.g. feed
respiratory and circulatory systems,	rations).
the parts of each system and their	rations).
functions	Interpret mathematical diagrams
how the parts inter-relate to enable the	
system to function	(e.g. temperature, pulse and
 potential diseases and disorders that 	respiration charts).
may arise	
how risks of these diseases and	Optimise work processes (e.g.
disorders are managed	daily routines).
common developmental issues in foals	
and growing youngstock.	Manage own time to meet
	objectives.
Indications of good and poor equine welfare,	
health and fitness for different uses (e.g.	Apply appropriate application of
breeding, competing) and the techniques	force.
used to assess these.	
Typical equine diseases:	
their causes and symptoms	
their potential effect on horse welfare	
 how to assess the risk of outbreak 	
 measures to prevent and control the 	
spread of disease	
• which diseases are notifiable/zoonotic,	
and the process involved with reporting	
and managing them.	
Common minor equine ailments and injuries	
and the first aid and treatments needed to	
deal with these.	
L	

Situations that require isolation and sick nursing and typical procedures to be followed.

Techniques used to measure clinical signs (e.g. temperature, hydration) in horses

- expected acceptable levels
- implications of not monitoring rates
- how they are applied.

Different types (including topical, orally administered with feed, orally administered with syringes) of equine medication used

• the control procedures and protocols that should be followed, including storage and reference to regulations.

Horse Handling, Care and Appearance

Techniques and equipment used to handle and restrain horses and their use and suitability for different situations.

Requirements and procedures for daily grooming (including trimming, clipping, bathing) to meet welfare needs and the resources required to complete these.

The horse's hoof

- different types of shoes and their suitability for different situations
- how shoes can be used to treat health issues and injuries
- how to remove a loose or twisted shoe including the tools required.

Nutrition & Fitness

Nutritional and hydration requirements of horses

- at different life stages including in foals and growing youngstock
- for different work, exercise and/or competition

• the types of feed that can meet these requirements.

Fitness requirements for a variety of horses

- at different life stages
- for different work, exercise and/or competition
- implications of poorly designed and implemented fitness programmes.

Different types of non-ridden exercise

- the benefits to horses' health and welfare of non-ridden exercise
- health and welfare issues arising from poor technique used during non-ridden exercise.

Performance Outcome 2: Prepare horses for transportation

Knowledge Specific to Performance	Skills
Outcome	
Safe Working Practices	Apply protective equipment for travelling.
Key requirements of health, safety and	
security legislation, codes of practice and	Assess health and safety risks.
policies and their application to horse	
transportation.	Gather transportation documentation.
Typical hazards encountered when	Visually assess condition of the transport
preparing horses for transport (including	for horse safety and wellbeing e.g.
during loading)	partition security, level of ventilation.
 associated risks 	
 control measures that are best 	Load a horse onto transport.
applied.	
of Fire an	Secure a horse in transport.
Key requirements of Codes of Practice	
(e.g. DeFRA Code of Practice for the	Unload a horse from transport.
Welfare of Horses, Ponies and their	
Hybrids, National Equine Welfare Council	Apply biosecurity controls.
(NEWC) Code of Practice for Markets &	
Sales involved with the selling of Horses,	Use equipment to support loading a
Ponies and Donkeys) and ethics and how	difficult loader.
they are applied when preparing horses for	
transportation (including during loading).	
Routines and management for travel	
Different types of transport available for	
transporting horses the factors to consider	
when selecting transport including types of	
vehicle, facilities available to aid loading	
(e.g. loading ramp), purpose of journey,	
duration of journey, cost.	
The need for and techniques used to work	
in an environmentally sustainable manner	
when transporting horses and how these	
are implemented.	
The techniques used for accurate,	
recording of equine data and information	

and the implications of poor processes and unethical practice.

Requirements when planning travel for horses including equipment, supplies, protective equipment and documentation.

Horse Anatomy, Physiology and Welfare

Indications of good and poor equine welfare and health and the techniques used to assess these,

- how horse health and welfare are monitored during transportation
- the effect of transportation on welfare and health.

Common minor equine ailments and injuries and the first aid and treatments needed to deal with these.

Typical equine diseases:

- their causes and symptoms
- situations that require isolation and sick nursing and typical procedures to be followed
- the implications for transporting diseased horses
- which diseases are notifiable.

Different types (including topical, orally administered with feed, orally administered with syringes) of equine medication used

 the control procedures and protocols that should be followed, including storage and reference to regulations.

Horse Handling, Care and Appearance

Techniques and equipment used to handle and restrain horses

• their use and suitability for different transportation situations including when loading and travelling.

Nutrition & Fitness
Nutritional and hydration requirements for
horses being transported
 the types of feed that can meet
these requirements.

Performance Outcome 3: Prepare horses for different types of work and competition

Knowledge Specific to Performance	Skills
Outcome	
Safe Working Practices	Apply and fit snaffle bridle.
Key requirements of health, safety and	
security legislation, codes of practice and	Apply and fit a double bridle.
policies and their application when	
preparing horses for different types of work	Apply a saddle.
and competition.	
	Assess the fit of a saddle.
Typical hazards encountered when	
preparing horses for work or competition,	Apply and fit a martingale.
associated risks and control measures that	Apply and fit a bracetolate
are best applied.	Apply and fit a breastplate.
Key requirements of Codes of Practice (e.g.	Apply and fit a training aid.
DeFRA Code of Practice for the Welfare of	
Horses, Ponies and their Hybrids, The	Plait a horse's mane for competition.
British Horse Society Code of Practice for	
the Welfare of Horses and Ponies at	Present a horse's tail for competition
Events) and ethics and how they are	e.g. plait pull.
applied when preparing horses for work or	
competition.	Apply quarter marks.
Yard and field routines and management	Assess tack for safety.
Typical yard and field duties involved in	Clear task a runnava dirtuar hu
preparing horses for work and competition	Clean tack e.g. remove dirt, apply
and how these are organised and communicated.	saddle soap.
communicated.	Clip a horse for competition.
Competition rules for tack and equipment	
their implications for preparation	Trim a horse for competition.
 technical terms used by regulatory 	
bodies.	Turn out horse for competition e.g.
	chalking, coat shine.
Principles of customer care and how these	
are applied when dealing with different	Prepare mane for plaiting e.g. pulling,
stakeholders including competition riders,	trimming, using a thinning comb.
owners.	
	Apply and fit leg protection e.g. over
	reach boots, brushing boots.

Different saddlery and equipment	
requirements for work and competition	Apply studs.
 standards required 	
how to clean and prepare for specific disciplines	Remove studs.
how these are applied and correctly	Remove competition tack and
fitted when preparing horses	equipment from a horse.
implications of poor fitting tack on	
welfare	Identify discrete steps involved in
fitting of exercise sheets and rugs	completing a complex task (e.g.
pre, during and post exercise.	preparing for a competition).
Horse Anatomy, Physiology and Welfare	Sequence and prioritise steps.
The anatomy of the equine body	Estimate time and resources.
skeletal and muscular systems	
including the lower limb and hoof	Allocate resources (including people,
principles of conformation	equipment, materials, time) to steps.
 how the anatomy contributes to conformation 	
 techniques used to assess 	Apply physical dexterity with delicacy
conformation	e.g. when plaiting.
 potential injuries and problems 	
resulting from anatomical issues.	
The physiology of the equine respiratory	
and circulatory systems,	
• the parts of each system and their	
functions,	
 how the parts relate to enable the 	
system to function,	
 potential issues that may arise 	
 how risks of these issues are 	
managed	
 how issues are resolved. 	
Indications of good and poor equine	
welfare, health and techniques used to	
assess these.	
Common minor equine ailments and injuries	
and the first aid and treatments needed to	
deal with these.	

Typical equine diseases

- their causes and symptoms
- their potential effect on horse welfare and ability to work and compete
- how to assess the risk of outbreak when working or in competition
- measures to prevent and control the spread of disease when working or in competition.

Different types (including topical, orally administered with feed, orally administered with syringes) of equine medication used

- the effect of competition on their use
- the control procedures and protocols that should be followed during competition, including storage and reference to regulations.

Horse Handling, Care and Appearance

Techniques and equipment used to handle and restrain horses and their use and suitability for different situations.

Grooming requirements (including pulling, plaiting, clipping, trimming) for different work and competition and the resources required to complete these.

The horse's hoof

- different types of shoes and their suitability for different situations
- how shoes can be used to treat health issues and injuries
- how to remove a loose or twisted shoe including the tools required
- types of studs, their suitability for different situations and how to fit them.

How tack is fitted correctly for the safety and welfare of the horse and implications of

poor fitting to the health and welfare of the	
horse.	
Nutrition & Fitness	
Nutritional and hydration requirements for	
horses	
 at different life stages 	
 for different work, exercise and/or 	
competition	
 the types of feed that can meet these 	
requirements.	
Care routines to be applied post work,	
exercise and competition including cooling	
down and rehydrating.	
Fitness requirements for a variaty of barage	
Fitness requirements for a variety of horses	
with different work, exercise and/or	
competition requirements.	

Performance Outcome 4: Prepare a horse for breeding

Knowledge Specific to Performance	Skills
Outcome Safe Working Practices Key requirements of health, safety and security legislation, codes of practice and	Identify a horse from documentation provided.
policies and their application when preparing horses for breeding.	Assess the suitability of a mare for breeding.
Typical hazards encountered when preparing a horse for breeding and control	Adjust size of stocks.
measures that are best applied.	Lead a horse into stocks e.g. mare.
Key requirements of Codes of Practice (e.g. National Equine Welfare Council (NEWC)	Secure a horse in stocks e.g. mare.
Code of Practice for Tethering of Equines, Horserace Betting Levy Board (HBLB)	Wrap a horse's tail.
Code of Practice for Artificial Insemination (AI)) and ethics (e.g. use of unlicensed,	Clean a horse's genitalia.
ungraded studs, indiscriminate breeding) and how they are applied when selecting	Lead a horse out of stocks e.g. mare.
(e.g. grading of stock) and preparing a horse for breeding.	Check provenance of semen.
	Assess quality (motility) of semen.
Yard and field routines and management Typical yard and field duties involved in	Fit a foaling alarm.
managing and preparing a horse for	
breeding and how these are organised and communicated.	Configure a digital foaling alarm.
	Move and restrain a strong horse.
 Types of stabling their characteristics their suitability for different stages in the breeding process how they are prepared for specific purposes. 	Restrain a horse in position and keep it still.
Types of grassland	
 their characteristics their suitability for managing breeding stock. 	

The types of breeding records (including passports, stud contracts, veterinary certificates, pedigrees) maintained by the yards

- software used
- the information they record
- how the information is shared with key stakeholders.

The techniques used for accurate, confidential recording of equine data and information and the implications of poor processes and unethical practice.

The need for and techniques used to work in an environmentally sustainable manner and how these are implemented.

Horse Anatomy, Physiology and Welfare

The anatomy of the equine body

- skeletal and muscular systems including the lower limb
- principles of conformation
- how the anatomy contributes to conformation and the horse's suitability for breeding
- techniques used to assess conformation
- potential hereditary problems resulting from anatomical issues.

The physiology of the male and female equine reproductive systems,

- including gestation and parturition
- the parts of the system and their functions
- how the parts relate to enable the system to function
- hormonal control of the male and female reproductive system
- potential issues that may arise
- how risks of these issues are managed

how issues are resolved.

Characteristics used to identify horses including and associated terminology.

Indications of good and poor equine welfare, health and fitness

- when preparing a horse for breeding
- when mares are in foal including early signs of foaling and emergency foaling situations (e.g. breech)
- techniques used to assess these
- technology used to support this.

Typical equine diseases and ailments likely to occur through the breeding stages:

- their causes and symptoms
- their potential effect on successful breeding
- how to assess the risk of outbreak
- measures to prevent and control spread the of disease
- diseases that are notifiable.

Pre-entry tests required to meet regulatory requirements for mares and stallions at stud

- purposes of those tests
- implications of non-testing.

Techniques for artificial manipulation of the reproductive processes

- suitability of the techniques for different situations
- veterinary techniques that are applied
- when techniques occur
- how to prepare the horse for these techniques.

Natural and non-natural covering techniques (including artificial insemination techniques, embryo transfer),

• their characteristic

- their purposes,
- the benefits and drawbacks of use for different horses and purposes
- the benefits and drawbacks of using fresh, chilled and frozen semen.

How health and wellbeing care routines are adapted for breeding stock at different stages of breeding.

Horse Handling and Care

Techniques and equipment used to handle and restrain horses during different stages of breeding and their suitability for different purposes.

Requirements and procedures for daily grooming for horses during different stages of breeding and the resources required to complete this.

Technology

Technology used to support the breeding process e.g. heat lamps, foaling alarms.

Artificial insemination and embryonic transfer

- preparation, actions required, benefits and limitations
- benefits and limitations of fresh, chilled and frozen materials
- implications for the use of fresh, chilled and frozen materials including timings for insemination.

Nutrition & Fitness

Nutritional and hydration requirements for horses at different stages of breeding and implications for inappropriate application.

The relationship between levels of fitness and breeding potential and implications of inappropriate application.

Performance Outcome 5: Support horses' recovery, recuperation and rehabilitation

Knowledge Specific to Performance	Skills
Outcome	
Safe Working Practices	Set up a footbath.
Key requirements of health, safety and	
security legislation, codes of practice and	Provide enrichment in stable for horse on
policies and their application in equine	box rest.
yards	
	Demonstrate how to remove a shoe.
Typical hazards encountered when	
supporting horses' recovery and	Apply a bandage.
rehabilitation, associated risks and control	
measures that are best applied.	Manipulate limbs e.g. lift and extend
	legs.
Ethical issues and implications associated	
with recovery and rehabilitation of horses.	Prepare a wound for dressing e.g.
Vard and field routines and management	cleanse an area for veterinary
Yard and field routines and management	inspection, trim hair around a wound.
 Types of stabling their characteristics 	Apply dressings to a wound e.g. to
 suitability for different recovery and 	hooves, joints.
rehabilitation needs of horses	
 the contribution of location and 	Administer medication e.g. oral, topical.
layout to providing enrichment	
 how they are prepared for those 	Prepare medication
purposes.	
purpose.	Plan pole layout for specific purposes.
Types of grassland	
their characteristics	Position poles for a specific purpose e.g.
 suitability for different recovery and 	for lungeing.
rehabilitation needs of horses.	
	Secure tack for lungeing.
Methods used for accurate, recording of	
support provided for horses through	Fit a lunge caveson.
recovery and rehabilitation equine and the	
implications of poor processes and	Fit a lunge roller.
unethical practice.	
	Fit a training aid.
The types of business that provide services	Start a horse lungeing.
to support the recovery and rehabilitation of	Clart à horse lungeing.
horses	
how their services are procured	

 how their quality is monitored. 	Maintain a consistent circle size whilst lungeing.
Principles of customer care and how these	
are applied when dealing with different	Use a lunge line and lunge whip
stakeholders e.g. yard visitors, owners.	simultaneously.
Horse Anatomy, Physiology and Welfare	Maintain a consistent pace whilst
The anatomy of the equine body	lungeing.
 skeletal and muscular systems 	
including the lower limb and hoof	Start the horse long reigning.
principles of conformation	Maintain distance from a horse whilst
how the anatomy contributes to	long reigning.
conformation of different breeds and	long reighnig.
individual horses	Perform turns and circles whilst long
 techniques used to assess conformation 	reigning.
 potential injuries and problems 	5 5
resulting from anatomical issues	Work a horse over poles e.g. long
 natural processes for tissue repair 	reigning, lungeing, in hand work.
and wound healing	
 how recovery and rehabilitation 	Start a horse loose schooling.
activities can affect skeletal and	
muscular system including bone	Keep a horse moving loose in school.
modelling, muscle development and	Direct o horse when leave ochooling
impact on ligaments and tendons.	Direct a horse when loose schooling
	Estimate a horse's weight.
The physiology and control of the equine	
respiratory, circulatory and	Calculate medicine requirements based
thermoregulatory, immune systems	on a horse's weight.
 the parts of each system and their functions 	C C
functions,	Convey technical information to technical
 how the parts relate to enable the system to function, 	and non-technical audiences (e.g.
 potential issues including 	conveying a recovery plan to a vet or
deterioration that may arise from	owner).
recovery and rehabilitation activities	
 how risks of these issues are 	Present information and ideas orally to
managed	others.
 how issues are resolved 	Summarian information and ideas
 how recovery and rehabilitation is 	Summarise information and ideas.
used to improve physiology and	Synthesise information.
other beneficial effects it can	
provide.	

Characteristics and causes of natural, atypical, desirable and undesirable behaviour in horses and how these are used to determine training plans and monitoring requirements.

How required behavioural changes are identified (including through observation sampling techniques, scrutiny of records)

- the types of information provided
- how these are used to support planning and evaluating impact of training.

The impact that nutrition (e.g. type of nutrients, diet, timing of food and water intake) can have on equine behaviour and how this can be managed to positively influence behaviour.

Relationship between environmental factors (e.g. bedding, noise), health, wellbeing, learning and positive behaviour and how this supports the horse in training and with the development and implementation of training plans.

Social needs of animals

- how they may vary at different life stages and different incidents
- different ways in which they can be met
- how they affect horse behaviour.

Types of communication (including posture, vocalisations, body language) used by horses for different purposes

• how this is used to monitor the response of animals to training.

The natural behaviour (including eating habits, sleeping habits, social behaviour,

Use open questioning and listening (e.g. deep, active) techniques

Using questioning techniques to obtain and clarify information.

Identify sources of information to support problem solving related to a horse's recovery, recuperation and/or rehabilitation.

Develop search criteria or questions to be answered to obtain information for a specific purpose.

Demonstrate precise and controlled movements.

Apply a logical approach to solving problems.

lifecycles) of horses and how the knowledge can be used to best optimise their health and welfare.

Indications of good and poor equine health and fitness

- techniques used to assess these
- the considerations needed for recovery, recuperation and rehabilitation.

Typical equine injuries

- factors likely to lead to these injuries
- their impact on recovery, recuperation and rehabilitation
- methods of monitoring recovery from injury.

Different types (including topical, orally administered with feed, orally administered with syringes) of equine medication used

• the control procedures and protocols that should be followed, including storage and reference to regulations.

Differences between recovery, recuperation and rehabilitation:

- recovery why are they in recovery, (injury, illness) management of horses in recovery e.g. box rest, wound management, different treatments available, e.g. bandaging, holistic, when veterinary assistance is required
- recuperation why do they need recuperation, e.g. neglect, poor welfare, stress, management of horses in recuperation e.g. enrichment, grooming, when veterinary assistance is required
- rehabilitation getting the horse to work, when rehabilitation is appropriate, acceptable rehabilitation

methods, expected timescales, potential deterioration, when veterinary assistance is required.

Horse Handling, Care and Appearance

Techniques and equipment used to handle and restrain horses and their suitability for use during recovery, recuperation and rehabilitation.

The horse's hoof

- different types of shoes and their suitability for different situations
- how remedial shoeing can be used to support recovery and recuperation
- how to remove a loose or twisted shoe including the tools required.

Different saddlery and equipment requirements for recovery and rehabilitation

- their suitability for different activities and implications for inappropriate selection and use
- how tack is fitted correctly for the safety and welfare of the horse and implications of poor fitting to the effectiveness of recovery and rehabilitation
- welfare and safety standards required
- how to clean and prepare for use
- how these are applied when preparing horses for recovery and rehabilitation.

Nutritional and hydration requirements for horses during recovery, recuperation and rehabilitation.

Non-Ridden Exercise

Different types of non-ridden exercise

• the benefits to horse's health and welfare of non-ridden exercise

- different techniques that can be applied including lungeing, long reigning, loose schooling, in-hand exercises
- the suitability of the techniques for different horses and situations
- how the techniques are implemented effectively including the types of exercises involved
- the equipment required to implement techniques
- how to use voice, posture and position to support effective fitness programmes.

How to safely and effectively exercise a horse on the road in accordance with the highway and countryside code.

Use of pole work in rehabilitation

- distances of poles
- configuration
- suitability of exercise.

Training

Factors that negatively impact the success of recovery and rehabilitation

- risks associated with these factors
- how risks are minimised.

The use of ridden exercises such as transitions, variation of pace and lateral movements to support recovery and rehabilitation.

Types of technology to support recuperation and rehabilitation (e.g. horse walker, aqua-treadmill)

- the benefits and limitations of their use for different situations
- how they are used effectively.

Performance Outcome 6: Develop a horse's performance on the flat

For the purpose of this performance outcome, students can use artificial aids.

Knowledge Specific to Performance	Skills
Outcome	
Safe Working Practices	Use natural aids when riding.
Key requirements of health, safety and	
security legislation, codes of practice and	Swap the hand of a schooling whip in
policies and their application to riding horses	motion.
on the flat	
	Maintain a secure lower leg.
Typical hazards encountered when	
developing a horse's performance on the	Ride transitions.
flat, associated risks and control measures	
that are best applied.	Ride transitions within a pace.
Yard and field routines and management	Maintain a consistent rein contact.
Methods used for accurate, recording of	
training provided for a horse's performance	Ride a horse between the rider's leg
development and the implications of poor	and rider's hand.
processes and unethical practice.	
	Ride in balance with the horse with and
The types of business that provide services	without stirrups.
to support performance improvement	
 how their services are procured 	Ride school figures.
 how quality is monitored. 	
	Ride in a consistent rhythm.
Horse Anatomy, Physiology and Welfare	Ride on a long rein in walk or trot.
The anatomy of the equine body	Ride off a long feithin waik of thot.
 skeletal and muscular systems including the lower limb and hoof 	Pick up contact in walk or trot.
 principles of conformation 	
 how the anatomy contributes to 	Ride in open and closed order.
conformation of different breeds and	
individual horses	Ride shoulder in.
 techniques used to assess 	
conformation and the horse's	Ride changes of leg in canter through
suitability for working on the flat	walk.
 potential injuries and problems 	
resulting from anatomical issues and	Ride counter canter.
training on the flat	Ride leg vield in welk, that and contar
	Ride leg yield in walk, trot and canter.

	T
 how training on the flat affects skeletal and muscular system including bone modelling, muscle 	Ride turn on the haunches.
development and impact on ligaments and tendons.	Ride changes of rein.
	Demonstrate give and retake of reins.
The physiology and control of the equine respiratory, circulatory and thermoregulatory systems	Ride straight lines and circles.
 the parts of each system and their functions, 	Ride half circles.
 how the parts relate to enable the system to function, 	Change stirrup length whilst mounted and stationary.
 potential issues including injuries that may arise from training on the flat how risks of these issues are managed 	Adjust girth when whilst mounted and stationary.
 how issues are resolved 	Mount a horse.
 how training is used to improve physiology and other beneficial 	Dismount from a horse.
effects it can provide.	Assess equine performance on the flat.
Conditions of the nervous system (including wobblers, shivers, stringhalt)	Set personal goals.
 their symptoms the considerations needed for training on the flat. 	Monitor own performance and standards.
Indications of good and poor equine health and fitness	Demonstrate precise and controlled movements.
 techniques used to assess these during training 	
 the considerations needed for a training on the flat. 	
Typical equine injuries resulting from training on the flat	
 types of training activities, training aids and environments (including 	
training and accommodation) that could lead to these injuries	

- effects of injuries on performance, health and welfare and training programmes
- diagnostic techniques used.

Horse Handling and Care

Techniques and equipment used to handle horses and their suitability for use when developing performance on the flat.

The horse's hoof

- different types of shoes and their suitability for different situations
- how remedial shoeing can be used to support training on the flat
- how to remove a loose or twisted shoe including the tools required
- types of studs, their suitability for different situations and how to fit them.

Different saddlery and equipment requirements for training on the flat

- their suitability for different training activities and implications for inappropriate selection and use
- how tack is fitted correctly for the safety and welfare of the horse and implications of poor fitting to the effectiveness of training on the flat
- welfare and safety standards required
- how to clean and prepare for training
- how these are applied when preparing horses for training on the flat.

Nutrition & Fitness

Nutritional and hydration requirements for horses at different stages of performance training.

Fitness requirements for horses during different stages of performance training and

implications of poorly designed and/or	
implemented fitness programmes.	
The second second	
Training	
The principles of training (e.g. German,	
Spanish, classical)	
the reasons for them	
how they are used to influence and	
develop the horse's way of going.	
The use of exercises such as transitions,	
variation of pace and lateral movements to	
improve performance on the flat.	
Learning theory	
including stimulus response learning	
(habituation and sensitisation,	
associative learning (classical and	
operant conditioning)	
 types of reinforcement and 	
punishment	
the suitability of different techniques	
to meet different goals and the	
potential effects on the horse.	
Training plans	
• types of training goals (e.g. improve	
speed, improve precision) and how	
they are determined	
 how to incorporate learning theory 	
into training plans	
 types of training aids (e.g. 	
horsewalker) and reinforcers suitable	
to support meeting training goals	
how they are incorporated into	
training plans	
timescales and sequencing of	
activities in training plans	
 scaffolding of activities to lead to 	
development	
when a training plan needs to be	
adapted, typical changes required	

and how they are communicated and implemented

- how to assess progress against training goals and the follow up actions where required
- how to incorporate warm-up, warm down and recovery into training plans.

The importance of following owner's, employer's and manager's instructions for schooling or exercising.

Characteristics, purposes and intended outcomes and implications of inappropriate use of different types of ridden (e.g. roadwork, schooling) and non-ridden exercise (lungeing, long reigning).

Equitation

Riding positions and how they influence the horse's way of going.

Procedures for safe mounting (including adjusting of tack whilst mounted) and dismounting a horse

• adaptations required for different situations.

Impact of the rider on the horse's balance e.g. the use of trot diagonals, canter leads.

Sequence of footfalls within the paces.

How to use natural aids (including voice, posture and position) to influence the horse's way of going.

How to use artificial aids to influence the horse's way of going.

How to ride school figures, direct and acute transitions and lateral work to influence the horse's way of going.

How to ride in open and closed order in an arena and in the open following correct school rules and appropriate legislation and codes of practice e.g. Highway Code.	
The movements included in British Dressage tests to elementary level and where to find information on general British Dressage rules.	

Performance Outcome 7: Develop a horse's performance over poles and fences

For the purpose of this performance outcome, students can use artificial aids.

Students must work in small groups (e.g. pairs) to build a show-jumping course.

Knowledge Specific to Performance	Skills
Outcome	
Safe Working Practices	Ride through a grid.
Key requirements of health, safety and	
security legislation, codes of practice and	Ride a course of fences.
policies and their application when riding	
horses over poles and fences	Ride a double fence.
Typical hazards encountered when	Ride a related distance.
developing a horse's performance over the	
flat, associated risks and control measures	Jump a vertical.
that are best applied.	
	Jump a spread fence.
Yard and field routines and management	
Methods used for accurate, recording of	Maintain correct bend when riding a
training provided for a horse's performance	course of fences.
development and the implications of poor	
processes and unethical practice.	Warm up a horse for performance over
	poles and fences.
The types of business that provide services	Cool off a barrag after performance over
 to support performance improvement how their services are procured 	Cool off a horse after performance over poles and fences.
 how quality is monitored. 	
i now quality is monitored.	Maintain balance in upper and lower
Horse Anatomy, Physiology and Welfare	body when riding over poles and
The anatomy of the equine body	jumping over fences
skeletal and muscular systems	
including the lower limb and hoof	Maintain balance when making turns
 principles of conformation 	before and after riding over poles and
 how the anatomy contributes to 	jumping over fences.
conformation of different breeds and	Maintain rhythm on annraich and
individual horses	Maintain rhythm on approach and departure to poles and fences.
techniques used to assess	מפירעופ נט אטופא מווע ופוונפא.
conformation and the horse's	Maintain a consistent rein contact when
suitability for jumping	riding over poles.

potential injuries and problems	Jump a fence in jumping position.
resulting from anatomical issues and	Cive with the raine over the fence when
training over poles and fences	Give with the reins over the fence when
how training over poles and fences	riding over poles and jumping over
affects skeletal and muscular system	fences.
including bone modelling, muscle	Dide e streight line over conterneles
development and impact on	Ride a straight line over canter poles.
ligaments and tendons.	Catur contar note distances
	Set up canter pole distances.
The physiology and control of the equine	Ctride notes and jumps for a given
respiratory, circulatory and thermoregulatory	Stride poles and jumps for a given situation.
systems	situation.
the parts of each system and their	Stride different types of fenerse a g
functions,	Stride different types of fences e.g.
how the parts relate to enable the	bounce, offset, three stride.
system to function,	Stride out placing poles before and after
 potential issues including injuries that 	fences.
may arise from training over poles	Tences.
and fences	Stride out and set up a jumping grid of
 how risks of these issues are 	three or more fences.
managed	three of more fences.
 how issues are resolved 	Walk a course of show jumps.
how training is used to improve	
physiology and other beneficial	Assess the performance of a horse over
effects it can provide.	fences.
Conditions of the nervous system (including	Measure jumps and poles with
shivers, stringhalt)	precision.
their symptoms	
the considerations needed for training	Check understanding of others.
over poles and fences.	C C
	Collaborate with team members.
Indications of good and poor equine health	
and fitness and techniques used to assess	Exchange ideas with others.
these during training and the considerations	-
needed for a training over poles and fences.	Set personal goals.
Typical aquina injurica regulting from training	
Typical equine injuries resulting from training	Monitor own performance and
over poles and fences	standards.
types of training activities, training	
aids and environments (including	Demonstrate precise and controlled
training and accommodation) that	movements.
could lead to these injuries	

- effects of injuries on performance, health and welfare and training programmes
- diagnostic techniques used

Horse Handling and Care

Techniques and equipment used to handle horses and their suitability for use when developing performance over poles and fences.

The horse's hoof

- different types of shoes and their suitability for different situations
- how remedial shoeing can be used to support training over poles and fences
- how to remove a loose or twisted shoe including the tools required
- types of studs, their suitability for different situations and how to fit them.

Different saddlery and equipment requirements for training over poles and fences

- their suitability for different training activities and implications for inappropriate selection and use
- how tack is fitted correctly for the safety and welfare of the horse and implications of poor fitting to the effectiveness of training over poles and fences
- welfare and safety standards required
- how to clean and prepare for training
- how these are applied when preparing horses for training over poles and fences.

Nutrition & Fitness

Nutritional and hydration requirements for horses at different stages of performance training.

Fitness requirements for horses during different stages of performance training and implications of poorly designed and/or implemented fitness programmes.

Training

The principles of training (e.g. German, Spanish, classical)

- the reasons for them
- how they are used to influence and develop the horse's way of going.

The use of exercises such as transitions, variation of pace and pole work, gridwork to improve performance over fences.

Learning theory

- including stimulus response learning (habituation and sensitisation,
- associative learning (classical and operant conditioning)
- types of reinforcement and punishment
- the suitability of different techniques to meet different goals and the potential effects on the horse.

Training plans

- types of training goals (e.g. improve gymnastic ability, improve jumping technique) and how they are determined
- how to incorporate learning theory
 into training plans
- types of training aids (e.g. Pessoa, side reins, draw reins, Market Harborough) and reinforcers suitable to support meeting training goals

- how they are incorporated into training plans
- timescales and sequencing of activities in training plans
- scaffolding of activities to lead to development
- when a training plan needs to be adapted, typical changes required and how they are communicated and implemented
- how to assess progress against training goals and the follow up actions where required
- how to incorporate warm-up, warm down and recovery into training plans.

The importance of following owner's, employer's and manager's instructions for schooling or exercising.

Characteristics, purposes and intended outcomes and implications of inappropriate use of different types of ridden (e.g. gridwork) and non-ridden exercise (loose jumping).

Equitation

Riding positions and how they influence the horse's way of jumping.

Phases of the jump including approach, take off, bascule, landing, getaway and how the rider impacts on these.

How to use natural aids (including voice, posture and position) to influence the horse's way of jumping.

How to use artificial aids including whips and spurs to influence the horse's performance over poles and fences. Features of a course layout (e.g. distances, lines) and their implications for riding.

Types of fences, related distances, distances through doubles and combinations, British Eventing to novice level, British Showjumping to newcomers and where to find information on general British Showjumping and Eventing rules and exercises to improve performance over distances and fences.

Speeds to ride across country and in the showjumping arena and how these are developed through training.

How to set up ground poles, feeder poles, gymnastic exercises and gridwork using the appropriate distances for the training programme.

How to ride in open and closed order following correct school rules.