

T Level Technical Qualification in Agriculture Land Management and Production: Livestock production Occupational Specialism (Level 3)

Practical Assignment

Candidate Pack (Sample)

September 2023 v2.1

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Version and date	Change detail	Section
V1.0	Draft version	n/a
V2.0 June 2023	Approved version	n/a
V2.1 September 2023	Document formatting.	All.
	Resource sections updated	Tasks

1. Assessment

This assessment is for the Livestock production Occupational Specialism of the Technical Qualification. This pack consists of a practical assignment brief that you will need to use to complete your assessment tasks.

Performance outcomes

The weightings for each performance outcome will remain the same for every version of the practical assignment. This ensures the appropriate depth and breadth of knowledge and skills for each specialism can be reliably assessed in every version and meets the needs of industry while keeping comparability between each assessment over time.

Performance outcome	Typical knowledge and skills	Weighting
PO2 Establish conditions for animal breeding	<p>Candidates will understand the principles of breeding, the factors that affect behaviour of livestock and be able to apply these to practical tasks.</p> <p>Candidates will complete and carry out health assessments on livestock and be able to safely restrain animals.</p> <p>Candidates will assess suitability for livestock breeding and follow processes to aid breeding.</p>	16%
PO3 Rear livestock from birth to production standard	<p>Candidates will understand the characteristics of livestock that indicate they are ready for different stages of production.</p> <p>Candidates will carry out the weighing, feeding and watering of livestock.</p> <p>Candidates will understand the principles, requirements and techniques of environment design and management.</p> <p>Candidates will be able to maintain livestock indoor accommodation.</p> <p>Candidates will prepare the environment and accommodation for arrival and departure of livestock.</p> <p>Candidates will carry out routine tasks for the rearing of livestock and be able to safely apply any appropriate treatments.</p> <p>Candidates will be able to identify grass, forage crop and weed species.</p> <p>Candidates will be able to take a soil sample and test for pH.</p>	34%
PO4 Optimise livestock production	<p>Candidates will understand the factors affecting the transportation of livestock and the requirements of transport when moving livestock.</p> <p>Candidates will carry out routine tasks for livestock production.</p> <p>Candidates will understand and be able to operate different types of equipment and machinery used for livestock management and crop production.</p> <p>Candidates will apply biosecurity measures, clean equipment for storage.</p>	30%
PO5 Maintain all areas of the livestock production environment	<p>Candidates will prepare and plan boundary installation and maintenance, including, creating</p>	20%

a risk assessment, preparing a budget, estimating resource requirements. Candidates will carry out installation and maintenance, including, using appropriate equipment, preparing materials, using hand and mechanical tools and carry out appropriate process when disposing of waste materials.

2. Candidate guidance

General guidance

This is a formal assessment that you will be marked and graded on. You will be marked on the quality and accuracy of the work you produce. It is therefore important that you carry your work out to the highest standard you can.

Plagiarism

Plagiarism is the failure to acknowledge sources properly and/or the submission of another person's work as if it were your own. Plagiarism is not allowed in this assignment.

This assignment is an assessment of your abilities, so the work submitted must be all your own and carried out under the conditions stated. You will be asked to sign a declaration that you have not had any help with the assignment. Your assessor is allowed to give you general advice i.e., clarification of the task instructions. However, general advice will not include:

- Any specific advice on how to improve work to meet the required standard
- Feedback on anything missing from your work
- Any intervention that improves the standard or presentation of work

If there is a need to provide more than general advice your assessor will need to record the advice, they have given and take it into account when marking the submitted work.

Where research is allowed, your assessor must be able to identify which work you have done yourself, and what you have found from other sources. It is therefore important to make sure you acknowledge sources used and clearly reference any information taken from them (eg providing as a minimum a list of web addresses / books / articles etc used).

Timings and planning

You are advised to study the details of the assessment before starting.

You should check with your assessor that you have all the relevant materials, equipment and information/data sources that you need before starting the assessment.

You should take care when planning to make sure you have divided the time available between parts of the assignment tasks appropriately. Timings for tasks are provided within this pack to support with planning and time allocation.

If you have a good reason for needing more time, you will need to explain the reasons to your assessor and agree a new time for the assessment to take place. Any changes will be at the discretion of the assessor and agreed by City & Guilds.

Word counts

Typical word counts, where indicated, are to be used as approximates for guidance to support the production of sufficient evidence. The marking will relate to the quality of the evidence produced and not whether the word count has been met.

Health and Safety

You must always work safely, in particular while you are carrying out practical tasks.

You must always follow any relevant Health and Safety regulations, Risk Assessments and codes of practice in line with centre requirements.

If your assessor sees you working in a way that is unsafe for yourself or others, they will highlight the issue and ask you to stop the task immediately.

Presentation of work

Presentation of work must be neat, legible and appropriate to the task and evidence required for submission.

You should make sure that each piece of evidence, including any forms, are clearly labelled with your name and the task reference.

All electronic files must be given a clear file name that allows your assessor to identify it as your work.

Written work may be digital or handwritten unless stated otherwise.

All sketches and drawings should be neat, tidy and annotated.

Calculations should be set out clearly, with all working shown, as well as any assumptions made. You should use appropriate units at all times, consistent with the requirements of the assignment.

Instructions for this assignment

Ensure you read all the provided assessment information issued by the assessor

You must work independently and not share your work with any other candidates in these supervised assessment sessions.

Your work will be kept secure during any supervised breaks that are taken.

Internet access is **not** allowed, unless otherwise stated in the task.

You will not be permitted any additional notes, such as printed resources and textbooks, unless otherwise stated in the conditions for assessment.

You must complete all the tasks and present all evidence that is detailed in each task.

This assessment booklet contains the assignment brief.

The tasks have been separated into individual documents which will be handed to you at the start of each task.

Any additional documents/templates needed for the task will be provided to you by the assessor.

Within each task you will find the following:

- **Resources:** Provides a list of equipment, documents or tools that you will have access to, to complete the task/sub task.

- **Conditions of assessment:** This will tell you the duration and rules you must follow when completing a task.
 - **Controlled conditions:** This will tell you the rules you must follow when completing each task eg You must not share or discuss your work with other candidates.
 - **What must be produced for marking:** This describes the evidence you must submit when the task is completed. Be aware that failure to submit any evidence requested can adversely affect your overall mark for the assessment.
- Additional evidence for this task:** This describes other forms of evidence that will be collected by the assessor to support the marking of your performance. This will often include but is not limited to, photographic and video evidence.

Performance Outcome and Assessment Themes

A set number of marks are allocated against each assessment theme, based on the performance outcome weightings recommended by stakeholders of the qualification. This mark allocation remains the same for all versions of the assessments, ensuring consistency across assessment versions and over time.

You will be assessed against these assessment themes. This assignment brief has a total of 150 marks. The table below shows the mark distribution for this assessment.

Performance outcome (PO)	PO assessment themes	Marks per assessment theme	Marks per PO
Establish conditions for animal breeding	Health and welfare	12	24
	Breeding	12	
Rear livestock from birth to production standard	Health and welfare	6	51
	Handling	9	
	Rearing	12	
	Crop	12	
	Environment and accommodation	12	
Optimise livestock production	Health and welfare	6	45
	Transportation	9	
	Machinery and equipment	12	
	Production	18	
	<ul style="list-style-type: none"> • Performance data 	6	
	<ul style="list-style-type: none"> • Routine production 	12	
Maintain all areas surrounding the livestock production environment	Health and safety	6	30
	Plan boundary maintenance	12	
	Carry out boundary maintenance	12	
Totals		150	150

2. Assignment brief

You are working as a trainee Farm Manager at Guilds Farm, a mixed enterprise farm in your local area, which includes the following enterprises:

- 200 cow dairy herd.
- 500 ewe breeding flock.
- 50 hectares of arable land producing feed and bedding for the livestock enterprises.
- 240 hectares of grassland for grazing and forage production.

Guilds Farm are planning an expansion to include the introduction of the following enterprises:

- 100 sow, straw based, indoor pig production unit

Breeding unit

- All sows served using a combination of artificial insemination and natural service
- Separate dry sow accommodation

Farrowing unit

- Batch farrowing system and weaning at 4 weeks.
- Separate farrowing accommodation

And a

- 32,000 bird free range laying unit.

As part of your role as a trainee Farm Manager you are responsible for assisting with the day-to-day husbandry tasks for all livestock enterprises on the farm. This will include breeding, rearing and production stages.

You are also required to assist with the arable and grassland enterprises including the growing and harvesting of the crops and to ensure that routine maintenance of outdoor facilities is carried out on the farm.

One of your day-to-day tasks is to safely carry out the operation of machinery and equipment and basic routine maintenance.

You are also required to contribute to the planning of the introduction of the new livestock enterprises.

This assignment contains **eleven** tasks and has a total time of **39 hours**.

Please read ALL information carefully before the assessment.

Task 1 – Husbandry tasks

a) You must carry out routine husbandry tasks for **cattle** by completing the following:

i) Complete a risk assessment for the routine husbandry tasks in part ii)

ii) Carry out the following routine husbandry tasks:

- work with two others to safely move animals (6-10) from a yard/ pen/ field into a handling area
 - collaborate and communicate with others to effectively move the animals into the handling area
- take the lead when working with one other to safely restrain one animal using appropriate equipment
 - you must give clear and appropriate instructions to the other person to ensure safe restraint of one animal.
- identify one animal using a digital tag reader and apply markings.
- check equipment and weigh an animal.
- administer oral treatment (drench) and complete medicine treatment record.

iii) Carry out a full health assessment and observation of one animal to determine the suitability of the livestock for breeding including:

- age (provided by assessor)
- condition
- weight
- size

You must make notes whilst carrying out the full health assessment and observation of one animal to determine the suitability of the livestock for breeding, in preparation for the written tasks in Task 1b.

The templates for the risk assessment (figure 4) and medicine treatment record (figure 3) report will be provided to you by your assessor.

Resources:

- a group (6-10) of cattle
- appropriate PPE
- paper, pen, pencil
- handling and restraint equipment
- a livestock marker (spray, wax)
- thermometer
- weighing scales
- stopwatch / watch
- a digital tag reader
- oral treatment and administration equipment
- medicine treatment record template (figure 3)
- risk assessment (figure 4)

Conditions of assessment:

- the time allocated for this task is **2.5 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- risk assessment
- medicine treatment record

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor
- video evidence by the assessor

b) You must use the information collected during the observation and full health assessment in task 1a to complete:

- the health check report
- the written report to include the following:
 - the suitability of the livestock for breeding, including:
 - age (provided by assessor)
 - condition
 - weight
 - size

The template for the health check report (figure 5) will be provided to you by your assessor.

Resources:

- notes from task 1a
- health check report template (figure 5)
- appropriate IT equipment

Conditions of assessment:

- the time allocated for this task is **1.5 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you will have access to your notes taken in Task 1a.

What must be produced for marking:

- health check report
- written report of the suitability of livestock for breeding (typically 500 words)

Additional evidence for this task:

N/A

Task 2 - Rearing

a) You must carry out the following routine tasks for cattle:

- attach a halter to a calf
- fit a calf jacket

Resources:

- appropriate PPE
- a calf/ves
- halter
- calf jacket

Conditions of assessment:

- the time allocated for this task is **30 minutes**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor

b) You must carry out the following routine tasks for **sheep**:

- catch one sheep from a group. The sheep to be caught will be selected by the assessor.
- manually tip and turn a sheep using the correct techniques and check feet to identify if treatment is needed.
- age a sheep from its teeth and assess teeth condition.
- answer questions from the assessor during the task.

Resources:

- sheep
- appropriate PPE

Conditions of assessment:

- the time allocated for this task is **30 minutes**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- video evidence by the assessor
- responses to questions, including video/audio recording

Task 3 – Livestock production

- a) You must carry out the following production tasks for **sheep** using industry guidance:
- determine individual body condition score for three animals.
 - assess individual livestock for locomotion for three animals.
 - answer questions from the assessor during the task

Resources:

- a small group (three) of sheep
- appropriate PPE
- industry guidance for body condition scoring
- industry guidance for locomotion scoring

Conditions of assessment:

- the time allocated for this task is **1 hour**.
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- video evidence by the assessor
- responses to questions, including video/audio recording

- b) You must carry out the following for **six** sheep:
- visually assess condition of transport for livestock.
 - visually assess livestock for fitness for travel.
 - load and unload livestock onto and off transport.
 - answer questions from the assessor during the task

Resources:

- Six Sheep
- transport (trailer)
- instruments for note taking
- measuring device for sizing the trailer and ramp
- twine

Conditions of assessment:

- the time allocated for this task is **1 hour**.
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- video evidence by the assessor
- responses to questions, including video/audio recording

c) You must carry out the procedure for milking **30 cattle**, including:

- set up milking equipment.
- strip and inspect foremilk.
- milk livestock.
- clean down milking equipment.

Resources:

- 30 Cattle
- protocols for setting up equipment and milking
- milking equipment
- cleaning equipment
- appropriate PPE (apron, gloves, parlour suit, steel toe capped wellingtons)

Conditions of assessment:

- the time allocated for this task is **3 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- video evidence by the assessor

- d) You must carry out the following routine production tasks:
- handle a small group (6-10) of sheep into and through a race.
 - crutch or dag two sheep.
 - foot bath a small group (6-10) of sheep.

Resources:

- a small group (6-10) of sheep
- appropriate PPE
- pen with gates
- race
- crutching or dagging equipment
- foot bath

Conditions of assessment:

- the time allocated for this task is **1 hour**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- video evidence by the assessor

Task 4 – Feeding and accommodation

a) You must carry out the following for **sheep**.

- prepare and mix feed for bottle feeding, and feed one animal using the bottle.

Resources:

- one sheep
- appropriate PPE
- scoop/spoon
- a bottle
- the feed (whole milk or milk substitute/ water)
- weigh scales
- thermometer
- whisk
- bucket

Conditions of assessment:

- the time allocated for this task is **30 minutes**.
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- video evidence by the assessor
- photographic evidence by the assessor

b) You must carry out the following for **sheep**:

- prepare indoor accommodation for livestock (size/ weight/ stage of production to be specified by the assessor):
 - using hygienic techniques
 - applying biosecurity measures.
- measure accommodation to determine stocking densities.
- measure available feed and water access.

You must keep a note of all measurements and calculations, these will be used to inform task 4c.

Resources:

- access to livestock building
- appropriate PPE
- foot dip/disinfectant/antibacterial powder
- straw
- wheelbarrow
- fork
- brush
- shovel
- buckets
- access to water
- sprayer
- tape measure/ measuring wheel/ range finder
- calculator
- paper and pen

Conditions of assessment:

- the time allocated for this task is **2 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor

- c) You must use your findings from task 4b to complete:
- a written report with justifications, on the suitability of the accommodation for the stage of production, including all measurements, calculations and stocking densities.

Resources:

- calculator
- paper, pen, pencil
- appropriate IT equipment
- the relevant industry codes of welfare recommendations according to species
- the stocking density requirements eg farm assurance requirements

Conditions of assessment:

- the time allocated for this task is **2 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you will have access to your measurements and calculations from Task 4b.

What must be produced for marking:

- written report and calculations (typically 1000 words)

Additional evidence for this task:

N/A

Task 5 – Crop production

a) You must:

- take a representative soil sample from a field allocated by your assessor
- test the soil sample for pH.

Resources:

- field for sampling
- appropriate PPE
- soil sampling equipment (eg spear)
- pH testing equipment

Conditions of assessment:

- the time allocated for this task is **1 hour**.
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor

b) You must:

- identify two grasses, two legumes, two forage crops and three weeds.
- produce a written report explaining the potential impact of invasive plants on livestock.

The proforma for the plant identification task will be provided to you by your assessor.

Resources:

- plant identification proforma (figure 6)
- paper, pen, pencil
- appropriate IT equipment

Conditions of assessment:

- the time allocated for this task is **1 hour**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- proforma with images
- written report (250 words)

Additional evidence for this task:

N/A

c) You must:

- produce a written plan for establishing a new grass ley in a field, for grazing sheep and conservation.

The plan must include the establishment method based on previous cropping, reasons for the seed mixture selection and weed control. The seed mixture selection must be appropriate for the livestock species and the proposed length of ley. The plan must also include timings for conservation.

Type of crop	Grass
Previous cropping	Winter barley
Soil type	Medium loam
Soil conditions at time of sowing	Dry, friable seedbed

- produce a written plan for establishing a cereal crop in a field, which will be harvested for the grain and straw.

The plan must include the establishment method based on the information provided below, reasons for the type of cereal crop and the required weed control.

Type of cereal crop	Wheat
Previous cropping	Forage maize
Soil type	Medium loam
Soil conditions at time of sowing	Moist, friable seedbed

The plans should include reference to the types of records that should be produced and stored in relation to this task.

Resources

- paper, pen, pencil
- appropriate IT equipment

Conditions of assessment:

- the time allocated for this task is **2 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- written plan for establishing a new grass ley (typically 500 words)
- written plan for establishing a cereal crop (typically 500 words)

Additional evidence for this task:

N/A

Task 6 – Machinery and equipment

You must carry out the following:

- complete pre-use checks on machinery and equipment.
- use mechanical equipment to load and unload four large bales of forage or straw on and off a trailer.
- hitch a trailer to a tractor and reverse the tractor and a trailer into a confined area.
- operate a diet feeder to feed livestock.

The templates for the pre-use checks (Figure 7) will be provided to you by your assessor.

Resources

- pre use checklist template (figure 7)
- paper, pen, pencil
- grab/ bale spike
- bales of forage or straw
- trailer
- tractor with front end loader
- diet feeder

Conditions of assessment:

- the time allocated for this task is **3 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- Pre-use checks

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor
- video evidence by the assessor

Task 7 - Estate maintenance

You are responsible for the maintenance of the boundaries surrounding the areas of production.

- a) You must produce a written report to plan the maintenance of a permanent stock proof boundary (fence) on the estate to keep sheep enclosed, which must include:
- a justified plan for and costing the materials for a replacement 200 metre length of fence using the materials list in figure 1 of the brief. Labour does not need to be costed. To be installed on a level site with a 90 degree turn after 50 metres.
 - a labelled side elevation diagram of the proposed maintenance. This can be handwritten or digital. It does not need to be to scale.
 - the environmental considerations, legislation and codes of practice (including potential malpractice) which are relevant to the task.

Figure 1 will be provided to you by your assessor. You must select the appropriate materials from the list and are not expected to use all of them.

Resources

- appropriate IT equipment
- paper, pen, pencil
- figure 1 from the assignment brief
- calculator

Conditions of assessment:

- the time allocated for this task is **1.5 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- written report on the maintenance plan (typically 500 words, plus diagram)

Additional evidence for this task:

N/A

b) You must:

- complete a risk assessment for the planned maintenance.
- safely undertake the installation of a 6-metre section of stock proof fence with stock netting and two strands of barbed wire above the stock netting.
- dispose of waste materials appropriately.

You can assist each other with the post driving and rolling out of the wire and netting elements of the task.

The template for the risk assessment (Figure 4) will be provided to you by your assessor.

Resources:

- risk assessment template (figure 4)
- paper, pen, pencil
- level area for installing a minimum of 6 metres of fence per candidate
- tools, materials, and equipment for installing a stock proof boundary
- stock netting and two strands of barbed wire for a distance of a minimum of 6 metres per candidate (strainers pre-installed)
- suitable straining facility
- equipment to dispose of waste materials
- appropriate PPE

Conditions of assessment:

- the time allocated for this task is **2 hours**.
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- risk assessment

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor

- c) You must maintain a ditch/drain specified by the assessor:
- check a ditch and drain outfalls to ensure free flow of water.
 - safely carry out remedial work using appropriate tools and equipment.

Resources:

- ditch and associated drain which requires remedial work
- tools, materials, and equipment as appropriate to the task and site
- appropriate PPE

Conditions of assessment:

- The time allocated for all parts of this task is up to **1 hour**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor

d) You must:

- plant a length of hedge with 20 plants which are guarded. Spacing to be appropriate to the species and local setting.

Resources:

- prepared area for installing 20 hedging plants (cleared area, ready for planting)
- tools, materials, and equipment for planting a hedge
- 20 plants per candidate – species appropriate to the location
- guards appropriate to the plants
- appropriate PPE

Conditions of assessment:

- the time allocated for this task is **2 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

N/A

Additional evidence for this task:

- assessor observations
- photographic evidence by the assessor

Task 8 - Environment and accommodation

You are required to carry out planning based on the expansion of Guilds farm and the introduction of the new indoor pig production units.

You must:

- calculate the annual breeding performance (litters per sow per year) for the 100 sows based on the following:
 - Piglets are weaned at 28 days of age
 - 70% conception rate at first service
 - 30% conception rate at second service

Using the breeding performance calculations, you must propose accommodation and handling facilities to comply with the code of welfare and industry best practice to meet farm assurance standards.

It is expected that both units are set up within the same building.

You must produce:

- an annotated plan (A3 size) of the layout of the units to include:
 - dry sow accommodation
 - boar accommodation
 - insemination/ service facilities
 - farrowing accommodation
 - handling facilities
 - feed/ water facilities
 - space allowances

Your plan does **not** need to include feed, bedding or manure storage facilities.

The plan does **not** need to be to scale but measurements **must** be included.

You must produce:

- a written report to include justifications for your plan, this must include:
 - principles and requirements of livestock accommodation design to meet environmental requirements
 - how accommodation design can optimise the natural behaviour and health and welfare of livestock.

Resources:

- paper, pen, pencil
- appropriate IT equipment
- calculator

Conditions of assessment:

- the time allocated for this task is **4 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- calculations of annual breeding performance
- an annotated (A3 size) plan of the units
- written report (typically 1000 words)

Additional evidence for this task:

N/A

Task 9 – Health, welfare and performance

As part of the plan to introduce a new enterprise on to the farm, candidates must:

- complete the template for the 32,000 bird free range laying unit

The health, welfare and performance template (figure 8) will be provided by your assessor.

Resources:

- health, welfare and performance template (figure 8)
- appropriate IT equipment
- paper, pen, pencil

Conditions of assessment:

- the time allocated for this task is **3 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- health, welfare and performance template

Additional evidence for this task:

N/A

Task 10 - Areas of the livestock production environment

The owners of Guilds Farm are looking for alternative uses for the areas surrounding the production environment. The alternative uses must be a land use scheme. The primary aim is to add environmental benefits to the farm business.

You must:

- produce a written report proposing, with justification, one alternative use of areas surrounding the production environment.

The report must include the benefits to the farm business and the implications of the alternative use.

You will be provided with a clean copy of the John Nix Pocketbook (current edition) by your assessor.

Resources:

- figure 2
- paper, pen, pencil
- appropriate IT equipment
- John Nix Pocketbook (current edition)
- calculator

Conditions of assessment:

- the time allocated for this task is **1 hour**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- written report on alternative uses of areas surrounding the production environment (typically 500 words)

Additional evidence for this task:

N/A

Task 11 – Performance data

Using the performance data for the 500-ewe lowland breeding flock you must:

- produce a written report analysing and comparing the flock physical and financial performance with industry benchmark data. The report must also include the suggested date of the rams being introduced to the flock (the tupping period).

Figure 2 will be provided to you by your assessor.

You will be provided with a clean copy of the John Nix Pocketbook (current edition) by your assessor.

Resources

- paper, pen, pencil
- appropriate IT equipment
- John Nix Pocketbook (current edition)
- calculator

Conditions of assessment:

- the time allocated for this task is **2 hours**
- you must carry out the task on your own, under **controlled conditions**

Controlled conditions:

- you must only work on your tasks in the allocated times
- assessment evidence must be handed in at the end of each session for secure storage
- you must not share or discuss your work with other candidates
- you are not permitted to bring any additional materials into the assessment session

What must be produced for marking:

- written report (typically 1000 words)

Additional evidence for this task:

N/A

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