

# **T Level Technical Qualification in Agriculture, Land Management and Production**

## **Employer-Set Project for Crop, Woodland and Horticulture Core Pathway (Level 3)**

### **Employer-Set Project Brief (Sample)**

**September 2023 Version 2.1**

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**The Employer-Set Project will assess content from across both the common core content and the Crop, Woodland and Horticulture core pathway content.**

## **Section A**

### **The employer**

Your employer has recently taken ownership of Guilds Estate – a small rural estate which is open to the public and includes:

- arable farmland producing cereals and oil seeds
- an area of woodland which also has a Christmas tree plantation
- landscaped gardens, a productive horticultural area and a walled garden for growing vegetables
- open parkland featuring mature trees which are regularly maintained.

The estate employs a number of staff that are responsible for the running and upkeep of these areas.

## The project

Upon taking ownership of Guilds Estate, your employer has carried out a review of waste management on the estate and found that the waste generated from the operations on the estate is poorly managed and does not comply with their Waste Management Strategy, which is based on the 5 Rs of waste management – refuse, reduce, reuse, repurpose, recycle.

You are working as a junior manager on the estate, and you have been asked to improve Guilds Estate's waste management, to comply with the Waste Management Strategy.

You will do this by:

- developing a solution – conduct research and produce a report recommending your solution
- planning how your recommended solution could be implemented – produce an implementation plan for your solution.

You will need to consider the types of waste generated from the operations on the estate and how they are currently managed, determine what improvements can be made, and plan how these changes will be implemented.

You will gather feedback and will have the opportunity to recommend further changes and improvements.

The estate has a budget of up to £18,000 per year for waste management.

You will be required to use the information provided in the brief, and undertake your own research to come up with your solution and an implementation plan.

### Guilds Estate: Current roles and responsibilities of staff/contractors

Role	Responsibilities	Number of staff
Estate manager	Oversees all operations on the estate.	1
Junior manager	Implementation of waste management proposal, training of staff, auditing of processes to comply with Waste Management Strategy, liaison with facilities management.	1
Facilities management	Maintenance of the yards and buildings on the estate. Contributing to implementation of waste management proposal (facilitate moving/placing skips/waste containers in locations on site).	2
General staff	Farm workers (3), gardeners (5) and woodland workers/arborists (4) responsible for following	12

	procedures including, correct management/disposal of waste, in line with the estate's Waste Management Strategy, attending training and upskilling as directed by the junior manager.	
Waste collection company	Provision of skips/containers and collection of waste from agreed location/s on site.	N/A

## Guilds Estate: Waste Management Strategy

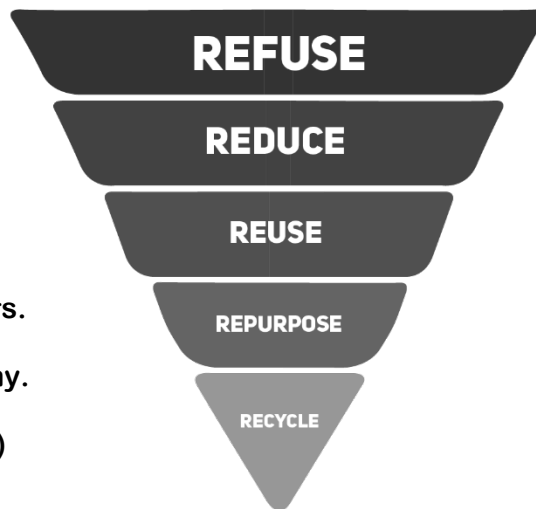
### Guilds Estate Waste Management Strategy

#### Consumable waste

Our priority is always to prevent waste in the first place, but where it does happen, it's important to make sure it's managed correctly, by implementing the 5 Rs of waste management.

#### The 5 Rs of waste management

- Refuse
- Reduce
- Reuse
- Repurpose
- Recycle



Transfer tickets must be kept for 2 years.

Use of a reputable, sustainable company.

ISO14001 (environmental management) certification is desirable.

## Guilds Estate: Review of current waste management

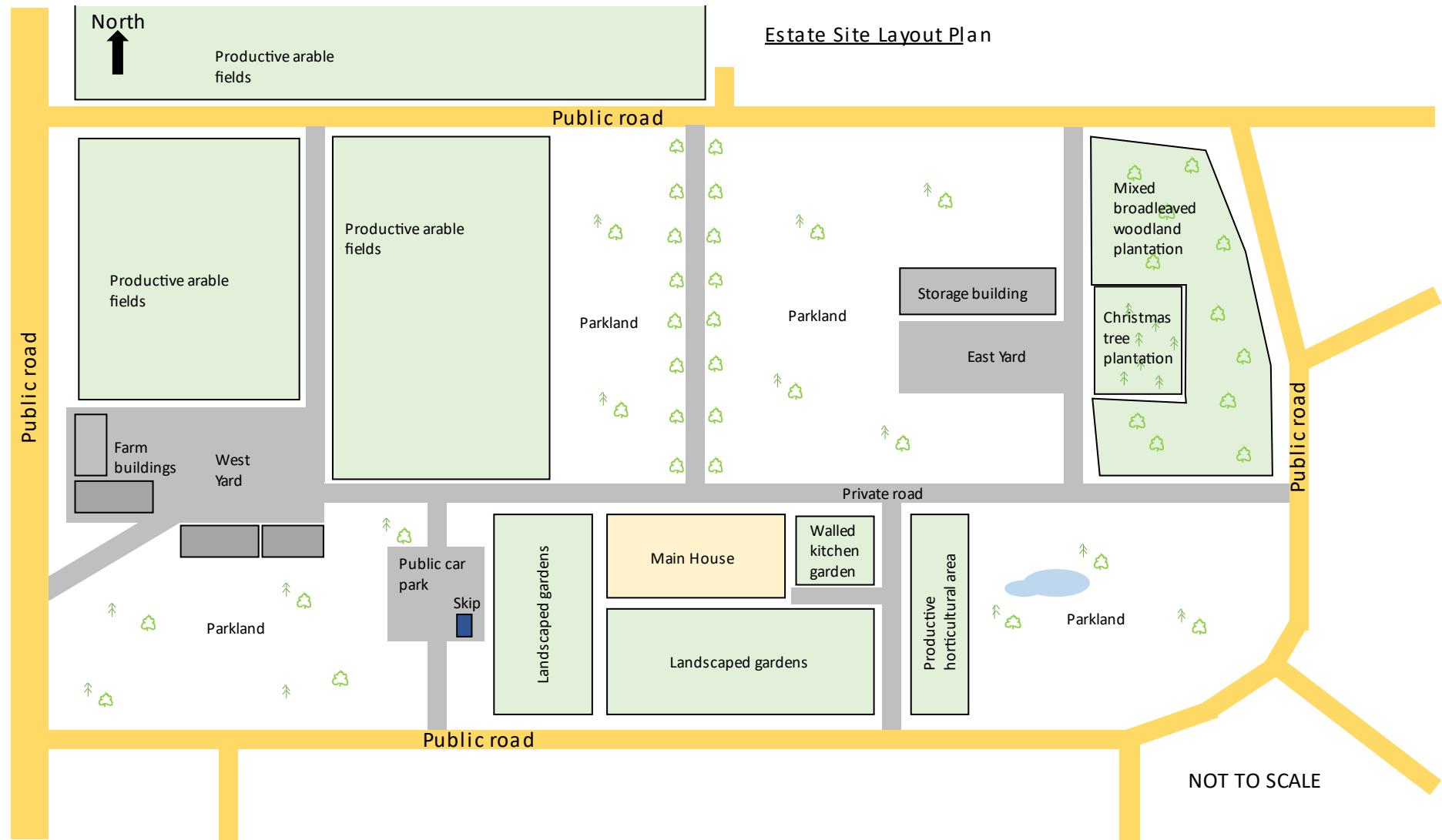
Guilds Estate's waste includes:

Consumable waste		Approximate quantity
Plastic plant pots/containers from plant deliveries for the gardens and production horticulture operation		5,000 per year  (Average pot volume 0.002m <sup>3</sup> )
Empty oil and chemical containers (20-litre containers)		50 per year  (Single container volume = 0.02m <sup>3</sup> )
Wooden packaging: standard pallets (from plant deliveries, deliveries of fuels/oils/chemicals)		50 pallets per year  (Single pallet volume = 0.15m <sup>3</sup> )
Empty plastic fertiliser bulk bags from the arable farming operations		200 bags per year  (Single bag volume when folded flat = 0.005m <sup>3</sup> )
Plastic wrapping and plastic bags from plant/tree deliveries, deliveries of fuels/oils/chemicals		1m <sup>3</sup> per month (compacted)
Paper/cardboard from general deliveries of additional items		2m <sup>3</sup> per month (compacted)

Green waste		Approximate quantity
Christmas tree maintenance pruning arisings (soft foliage cuttings)		12m <sup>3</sup> per year
Parkland tree maintenance arisings (various-sized branchwood and logs)		50m <sup>3</sup> per year (roughly stacked/heaped)
Horticultural green waste (soil, soft foliage cuttings, leaf litter, grass)		2m <sup>3</sup> per month

Waste is poorly managed and does not comply with the Waste Management Strategy, due to the following issues:

<b>Issues identified</b>
All types of consumable waste are currently disposed of together in a single skip. No consideration for the 5 Rs of waste management. Current practice is not fully compliant with The Waste (England and Wales) Regulations 2011.
Consumable waste collection is managed through a contract with Super Skips. Super Skips provides one skip for all consumable waste. (The current location of this skip is shown on the site layout).
General staff have been seen to put contaminated chemical containers into the skip. This could result in fines.
The skip is frequently filled with un-compacted cardboard.
The area around the skip is often untidy with loose waste, encouraging vermin.
Green waste is not effectively managed; it is all stored together in the East Yard. No consideration for the 5 Rs of waste management.
All types of consumable waste are being moved across the estate to the skip unsecured, resulting in litter in the grounds.






## Section B

The following information is to be shared with the candidate at the start of Task 2.




The estate's management are prepared to spend up to £18,000 per year.

The estate currently has a contract with Super Skips. Super Skips collects all the consumable waste from one skip which is removed weekly.

<b>Company name</b>	<b>Super Skips</b>	
<b>Cost</b>	£345 per collection	
<b>Number of containers</b>	One	
<b>Type and dimensions of container</b>	10.7m <sup>3</sup> capacity skip.  Height 1.9m, length 3.9m, width 1.7m.	
<b>Collection</b>	Weekly	
<b>Green score*</b>	1 star ★	
<b>Customer reviews</b>	<p><i>"We were charged extra due to inappropriate material in the skip, but no details were provided."</i></p> <p><i>"On enquiry, we found out that most of the waste goes to landfill."</i></p> <p><i>"Regular collections, no issues."</i></p>	

The table below shows price lists for three alternative waste disposal providers to be considered:

<b>Company name</b>	<b>Skip Hire For You</b>	<b>ABC Waste</b>	<b>Local council</b>
<b>Cost</b>	£400 per collection.	£150 per collection, per container.	£110 per collection, per container.
<b>Number of containers</b>	One	Five	Minimum one, maximum five.
<b>Type and dimensions of container</b>	10.7m <sup>3</sup> capacity skip.  Height 1.9m, length 3.9m, width 1.7m.	1.1m <sup>3</sup> capacity per container.  Height 1.35m, length 1.37m, width 1.07m.	1.1 m <sup>3</sup> capacity per container.  Height 1.35m, length 1.37m, width 1.07m.

Company name	Skip Hire For You	ABC Waste	Local council
	 <p>Segregated skips are available.</p>	 <p>Can be provided in different colours to aid segregation of waste.</p>	 <p>Can be provided with labelling to aid segregation of waste.</p>
<b>Collection schedule</b>	Fortnightly	Monthly (Additional collections available on request, charged at £200 per container)	Fortnightly
<b>Green score*</b>	2 stars ★ ★	3 stars ★ ★ ★	2 stars ★ ★
<b>Customer reviews</b>	<i>"Refused to collect when the skip was only slightly overfilled."</i>	<i>"Sometimes slow to respond to requests for collections."</i>	<i>"Collections are often disrupted around bank holidays. The council are good at communicating when the collection days have to be changed."</i>
	<i>"The skip's appearance is a bit untidy with dents and rust."</i>	<i>"Vehicles are clean, professional looking and use bio-fuels."</i>	<i>"Containers are well maintained and replaced when damaged."</i>
	<i>"Collections are always on time."</i>	<i>"Good customer service."</i>	<i>"Very polite drivers and always in hi-vis clothing."</i>

**\*Green score ratings:**

Green score ratings consider sustainable supply chains, recycling of collected waste, minimisation of landfill, carbon footprint, labour conditions for workforces and relevant certifications (ISO14001 environmental management).

**1 star:** Rated acceptable to good in all categories.



**2 stars:** Rated good to excellent in all categories.



**3 stars:** Rated good to excellent in all categories and ISO14001 certified.



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