

T Level Technical Qualification in Agriculture, Land Management and Production

Employer-Set Project for Land-based Engineering (Level 3)

Employer-Set Project Brief (Sample)

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The Employer-Set Project will assess content from across both the common core content and the Land-based Engineering core pathway content.

The employer

The Guilds Engineering Company is a land-based machinery dealership providing sales, maintenance and repair services for the land-based sector.

The Guilds Engineering Company provides the following types of machinery and equipment:

- agricultural
- ground care/turf
- construction
- horticultural and domestic garden
- forestry.

You are a technician who specialises in farming machinery and equipment, and you work with the following staff:

Job role	Existing skills and qualifications	Number of staff	Responsibilities	Hours worked per week (average)
Service manager (full-time)	Formal agricultural qualifications	1	Coordinates the technicians, administrators and apprentices. Day-to-day duties relating to land-based engineering machinery and equipment.	50
Service administrator (full-time)	Formal agricultural qualification	1	Day-to-day work relating to land-based engineering, including dealing with customer queries, invoicing, assisting where necessary during busy periods.	50
Technicians (full-time)	Formal agricultural qualification	5	Day-to-day work relating to land-based engineering machinery and equipment, including routine machine operation and testing, preparation of equipment for repairs, performing routine services.	40
Apprentices (part-time)	Formal agricultural qualification	2	Day-to-day work relating to land-based engineering machinery and equipment, including routine machine operation and testing, preparation of equipment for repairs, performing routine services.	25

The customer

At the recent County Show, the sales team met the owner of City Farm, a 300-hectare arable and dairy farm, located 20 miles from the dealership. They own a range of machinery and equipment which needs regular servicing and maintenance.

The project

The company service manager has asked you to research the requirements of the service plans for the five different types of land-based machinery and equipment that City Farm offers, produce service plans for two of the types of machinery or equipment, and a timetable of work for City Farm's machinery or equipment which will cover the next two years. You are asked to research and develop a proposal for the service work which will be reviewed by the service manager.

You must consider the financial impacts of the service plans and make sure there is minimal impact on the day-to-day work of City Farm. All machines are well maintained with full service records.

City Farm has the following machinery/equipment:

Machinery	Details	Annual usage
All-terrain vehicle (petrol)	4 years old *Must be road legal Out of warranty	100 hours/600 miles Used daily
120hp four-wheel drive tractor (diesel)	3 years old Out of warranty	1,300 hours Used daily
150hp four-wheel drive tractor (diesel)	2 years old Within manufacturer warranty	1,000 hours Used daily
Self-propelled sprayer – 3,000 litres, 24m boom (diesel)	6 years old Requires NSTS Out of warranty	500 hectares Used regularly during February–November
Combine harvester – 40 tonne per hour output (diesel)	8 years old 3,000 hours With operator included sometimes hired out to other farms Out of warranty	350 hours during July–September

*Road legal – equipped and licensed for use on public roads, being therefore roadworthy.

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