

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Pearson BTEC
Level 3
Extended
Diploma

Centre Number

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Learner Registration Number

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Additional sample assessment material
January 2020

Supervised hours: 2 hours 30 minutes

Paper Reference **21321L**

Agriculture;
Countryside Management;
Forestry and Arboriculture;
Horticulture

Unit 3: Contemporary Issues in the Land-based Sectors
Level 3 Part B

For use with:

Extended Diplomas in Agriculture; Countryside Management;
Forestry and Arboriculture; Horticulture

Total Marks

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Instructions

- **Part A** will need to have been used in preparation for completion of **Part B**.
- **Part B** booklet must be issued to learners as defined by Pearson and should be kept securely.
- **Part B** booklet must be issued to learners for the supervised session on the specified date.
- **Part B** is specific to each series and this material must only be issued to learners who have been entered to undertake the task in that series.
- **Part B** should be kept securely until the start of the supervised assessment periods.

Turn over ►

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Instructions to Teachers/Tutors and/or Invigilators

This set task is a formal external assessment and must be conducted with reference to the instructions in this task booklet and the *Information for Conducting External Assessments (ICEA)* document, to ensure that the supervised period is conducted correctly and that learners have the opportunity to carry out the required activities independently.

Part B set task is undertaken under formal supervision in a single session of **2.5 hours** timetabled by Pearson.

Part B materials must be issued to the learners for the specified session. Work should be completed in this task and answer booklet.

Part B set task requires learners to apply understanding gained through familiarisation with the context. Learners should bring in notes as defined in **Part A**. The teacher/tutor needs to ensure that the notes comply with the requirements.

All learner work must be completed independently and authenticated by the teacher/tutor and/or invigilator before being submitted to Pearson.

Learners must not bring anything into the supervised environment or take anything out without your approval.

Centres are responsible for putting in place appropriate checks to ensure that only permitted material is introduced into the supervised environment.

Maintaining security

- The assessment areas must only be accessible for the individual learners and to named members of staff.
- Learners can only access their work under supervision.
- Any work learners produce under supervision must be kept secure.
- Only permitted materials for the set task can be brought into the supervised assessment.
- During any permitted break and at the end of the session materials must be kept securely and no items removed from the supervised assessment.
- Learners are not permitted to have access to the internet or other resources during the supervised assessment period.

Outcomes for submission

A completed task and answer booklet.

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Instructions for Learners

Read the set task information carefully.

This session is of **2 hours and 30 minutes**. Plan your time carefully.

You have prepared for the set task given in this **Part B** booklet. Use your notes prepared during **Part A**. Attempt all of **Part B**.

Your notes must be your own work and will be retained by your centre until results are issued.

You will complete this set task under supervision and your work will be kept securely during any breaks taken.

You must work independently throughout the supervised assessment period and should not share your work with other learners.

Outcomes for submission

Completed task and answer booklet.

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Set task information

In **Part A** you were asked to research information on mechanisation and automation technologies in your specific land-based sector. You should use your research to complete the activities in relation to the scenario.

Scenario

The land-based sector in the UK currently uses a wide range of mechanisation and automation technologies to achieve growing and production efficiencies.

Mechanisation and automation are having increasing impacts on the land-based industries. This impact raises several longer-term issues that must be considered when using these new technologies in the land-based sector.

You are employed by a land-based organisation.

As part of your continuous professional development, you have been asked to produce a summary report to update colleagues in your sector on these issues.

Your report will include the following:

- the effectiveness of current mechanisation and automation technologies used in your land-based sector
- the economic, social and cultural implications of increasing the use of mechanisation and automation technologies in your sector
- judgements on the longer-term impacts of increasing mechanisation and automation in your sector.

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Set task

You must complete **all four** activities.

You will need to refer to the task information on page 4 and the notes from any preparatory work completed in **Part A**.

Activity	Suggested timings	Total marks
Activity 1	You should spend approximately 25 minutes on this activity.	12 marks
Activity 2	You should spend approximately 50 minutes on this activity.	20 marks
Activity 3	You should spend approximately 50 minutes on this activity.	20 marks
Activity 4	You should spend approximately 25 minutes on this activity.	12 marks

TOTAL FOR PAPER = 64 MARKS

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Answer booklet

Please do not write your answers outside the answer space provided below.

Activity 1 – Current use of mechanisation and automation technologies

Assess the effectiveness of **two** mechanisation and automation technologies that increase efficiencies in a process you have researched.

Your response must use **Part A** research notes and will:

- identify the roles of organisations and the people involved in the development, manufacture or implementation of the mechanisation and automation technologies
- consider evidence from a variety of source material and refer to this evidence
- show how you made sure that the sources you used were accurate.

(Total for Activity 1 = 12 marks)

You should spend approximately 25 minutes on this activity.

Process researched in Part A:

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Technology approach 1

- Describe how organisations and individuals use a specific technology to increase efficiencies.

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Effectiveness of technology approach

- Consider evidence from a variety of source material and refer to this evidence.
- Show how you have ensured accuracy of the sources used.

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Technology approach 2

- Describe how organisations and individuals use a specific technology to increase efficiencies.

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Effectiveness of technology approach

- Consider evidence from a variety of source material and refer to this evidence.
- Show how you have ensured accuracy of the sources used.

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Activity 2 – Economic implications of mechanisation and automation technologies

Using your research, discuss **two** economic implications for your sector of the mechanisation and automation technologies discussed in Activity 1.

You should consider:

- the economic implications resulting from the current use of the mechanisation and automation technologies
- costs and economic consequences of increasing mechanisation and automation that might be considered by:
 - landowners
 - the individuals affected, including members of the public
 - organisations in the sector: related government departments, national or professional organisations, or private land-based businesses.

(Total for Activity 2 = 20 marks)



You should spend approximately 50 minutes on this activity.

Economic implication 1

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Economic implication 2

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Activity 3 – Social and cultural implications of increasing the use of technology

Using your research, discuss **two** social and cultural implications for your sector of the increasing use of mechanisation and automation technology discussed in Activity 1.

You should consider:

- how increasing the use of mechanisation and automation technology would have implications for landowners, interested groups or organisations, and the views and opinions these people may have.

(Total for Activity 3 = 20 marks)

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You should spend approximately 50 minutes on this activity.

Social and cultural implication 1

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Social and cultural implication 2

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Activity 4 – Conclusions on increasing the use of mechanisation and automation technologies

How far do you agree with the view that increasing the use of technologies you have researched benefits the sector in the longer-term?

In your answer you will need to:

- explain whether you agree or disagree with the view given above
- select evidence from your research to support your answer
- reference points made in your responses to Activities 1, 2 and 3.

(Total for Activity 4 = 12 marks)

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