

## December 2024 Series P2 (Passenger Transport) Case Study

*The envelope, which contained this paper, will have been cut open in front of you*

### Examination Details:

|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| <b>Paper Title:</b>         | <b>December 2024 Series P2<br/>(Passenger Transport) Case Study</b> |
| <b>Paper No:</b>            | <b>PCS1224S</b>                                                     |
| <b>Date of Examination:</b> | <b>6<sup>th</sup> December 2024 13:00 – 15:15</b>                   |

**Time allowed: 2 hours 15 minutes**

### You must have:

- This case study.
- A question/answer booklet.

### You may use:

- A calculator.
- A dictionary.
- Any permitted written materials.

### Instructions:

- Use the case study information to answer all the questions.
- Write your answer to each question in the space provided in the question/answer booklet. If you need extra space, use the lined page(s) at the end of the question/answer booklet. The question numbers must be clearly shown.
- Additional paper may be used if required but you must clearly show your name, date of birth and question number(s).
- Answer all the questions.

### Information:

- The total mark for this paper is 60.
- The marks for each question are shown in brackets () in the question/answer booklet.

This document has 4 pages

## Background

Walvingham Bus & Coach Ltd (WBC) holds a Standard International operator licence in the West Midlands Traffic Area. The company has one operating centre, in Walvingham.

The company employs drivers who have all signed a workforce agreement to opt out of night working limits.

WBC's directors are keen to expand the areas in which they operate and are considering a number of future plans.

## Future plans

### Leisfield

The family of one of WBC's employees owns a farm in Leisfield in the East of England Traffic Area. The family has invited WBC to supply minibuss transport for its workers.

The proposed service will start in March 2025. It will operate seven days a week between March and September between the farm and Grimcaster, once every morning and once every evening. Each journey covers 30 km and takes 45 minutes. The workers who choose to use this service will make a small payment for each journey taken.

The minibus will be kept overnight at the farm and part-time drivers will be found locally.

### Catslow

Bezy Low-cost Airways (BLCA) has invited WBC to tender a contract to transport its aircrew between its hubs at London Heathrow Airport and Walvingham International Airport, which is a 5-minute drive from WBC's operating centre.

BLCA will require one of the 35-seat vehicles used on the service to be based at its Catslow head office in the London and South East Traffic Area, a 5-minute drive from London Heathrow Airport.

BLCA has supplied the following information:

- The distance between the two airports is 210 km.
- The average speed to be used for all journeys is 70 kph.
- All vehicles must return to their 'home' base at the end of each day.
- There are to be no stops along the route.
- Loading and unloading passengers at the airports each take 7½ minutes, including the time taken to drive between the airport drop-off and collection points and the airport coach parks.
- Drivers are to take breaks only in airport coach parks between journeys.
- Service schedule:

| Route                                                       | Departure time |
|-------------------------------------------------------------|----------------|
| London Heathrow Airport to Walvingham International Airport | 08.00hrs       |
| Walvingham International Airport to London Heathrow Airport | 09.00hrs       |

|                                                             |          |
|-------------------------------------------------------------|----------|
| Walvingham International Airport to London Heathrow Airport | 12.00hrs |
| London Heathrow Airport to Walvingham International Airport | 13.00hrs |

### Newlands

One of WBC's transport managers (Sheila) is relocating to Newlands in 2025 for family reasons. She has proposed that she will manage a new local bus service for WBC, to run between Newlands bus station and the town's local housing estates. The service will use 35-seat buses and start in May 2025.

The proposed circular route covers 5 km and takes 15 minutes to drive and Sheila suggests a 5-minute layover at the bus station for each round-trip journey.

Sheila has suggested the following service details, taking into account the need for higher bus frequencies during peak times:

| Departures between (inclusive) |          | Headway    |
|--------------------------------|----------|------------|
| 06.00hrs                       | 09.00hrs | 10 minutes |
| 09.30hrs                       | 17.00hrs | 30 minutes |
| 17.10hrs                       | 20.00hrs | 10 minutes |

### Walvingham

UK Snow Tours plc (UST) has invited WBC to submit a proposal, including a quotation, to operate a weekly 7-day tour to Chambéry (France) during the ski season. WBC's initial research supplies the following information:

- The vehicle to be used is a 49-seat coach, manned by two drivers.
- Each trip is to start at WBC's operating centre in Walvingham, where paperwork and vehicle checks will take 20 minutes.
- Loading passengers at the operating centre will take 30 minutes.
- Driving to the Le Shuttle terminal in Folkestone will cover 280 km at 70 kph.
- Check-in and embarkation at Folkestone will take 10 minutes of driving time, immediately upon arrival at the terminal.
- The Le Shuttle crossing for the outward journey must depart at 10.00hrs and takes 35 minutes.
- Disembarking Le Shuttle at Coquelles will take 10 minutes of driving time.
- The average speed for journeys between Coquelles and Chambéry is 80kph.
- Only one stop is to be made on the journey between Coquelles and Chambéry. This is to be taken at Troyes (460 km from Coquelles for one hour).
- The distance from Troyes to Chambéry is 420 km.
- Unloading passengers at their hotel in Chambéry will take 15 minutes.
- Immediately after unloading, the vehicle will be driven to a secure parking area at a hotel provided by UST for WBC's drivers, 5 km from the passengers' hotel, taking 10 minutes.
- During the week in Chambéry, one of the drivers will transport the passengers between the Chambéry hotel and ski areas each day. The vehicle will cover a total of 380 km on these journeys.
- The return journey will start from the secure parking area and cover the same route as the outward journey, including a stop in Troyes.

- The return fare for Le Shuttle is £520.
- Tolls in France will cost €150 each way. The exchange rate to be used is €1=£0.80.
- UST will accept a profit markup of 10%, applied to all costs.

#### Financial information (49-seat coach)

|                                     |                 |
|-------------------------------------|-----------------|
| Standing costs per vehicle per year | £28,500         |
| Days in use per year                | 250 days        |
| Set of tyres per vehicle            | £3,250          |
| Expected tyre life                  | 65,000 Km       |
| Fuel cost                           | £1.40 per litre |
| Fuel consumption                    | 5 kpl           |
| Driver cost, per driver per day     | £190            |

### Question/Answer Booklet

*The envelope, which contained this paper, will have been cut open in front of you.*

#### Examination Details:

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
| <b>Paper Title:</b>         | <b>December 2024 Series P2 Passenger Transport) Case Study</b> |
| <b>Paper No:</b>            | <b>PCS1224S</b>                                                |
| <b>Date of Examination:</b> | <b>6th December 2024 13:00 – 15:15</b>                         |

#### Instructions to the candidate - to be read before the examination.

**Time allowed: 2 hours 15 minutes**

#### You must have:

- The case study.
- This question/answer booklet.

#### You may use:

- A calculator.
- A dictionary.
- Any permitted written materials.

#### Instructions:

- Use black ink.
- Complete your name below in capital letters and include your date of birth and signature.
- Complete centre name and candidate number
- Use the case study to answer all the questions.
- Write your answer to each question in the space provided. If you need extra space, use the lined page(s) at the end of this booklet. The question numbers must be clearly shown.
- Additional paper may be used if required but you must clearly show your name, date of birth and question number(s).
- Answer all the questions.
- Do all calculations and rough work on the following pages. Cross out any work you do not wish to have marked.

#### Information:

- The total mark for this paper is 60.
- The marks for each question are shown in brackets ( ).
- This document has 10 pages.
- Assessment material has been prepared in line with legislation current at the time of production. Any subsequent changes to legislation have not been taken into account, however, responses that refer to amended legislation will be credited.

#### To be signed by the candidate:

|                                 |  |                                       |  |
|---------------------------------|--|---------------------------------------|--|
| <b>Candidate name:</b>          |  | <b>Centre name:</b>                   |  |
| <b>Candidate Date of birth:</b> |  | <b>Candidate registration number:</b> |  |
| <b>Candidate signature:</b>     |  |                                       |  |

| FOR EXAMINERS USE ONLY |  |
|------------------------|--|
| <b>Q1</b>              |  |
| <b>Q2</b>              |  |
| <b>Q3</b>              |  |
| <b>Q4</b>              |  |
| <b>Q5</b>              |  |
| <b>Q6</b>              |  |
| <b>Q7</b>              |  |
| <b>Total =</b>         |  |

1. WBC is considering a proposed home to work service for farm workers in Leisfield, as described in the case study. Using the information provided in the case study.

- (a) Outline **ONE** reason why WBC cannot use its Standard International operator licence to authorise running vehicles on this proposed service **and** give the minimum type of operator licence for which WBC should apply.

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[2 marks]

- (b) State which drivers hours rules apply to the drivers working on the proposed service.

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[1 mark]

- (c) Give the minimum number of vehicles required each day to operate the proposed service.

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[1 mark]

- (d) Calculate the minimum number of drivers required each week to operate the proposed service.

**Note:** you must show all your workings.

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[3 marks]

2. WBC is considering a proposed air crew transfer service for BLCA, as described in the case study. Using the information provided in the case study,

- (a) Outline **ONE** reason why WBC will need to apply for a new operator licence before starting to operate the proposed service **and** give the minimum type of operator licence for which WBC should apply.

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[2 marks]

- (b) State which drivers hours rules apply to the drivers working on the proposed service.

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[1 mark]

- (c) Calculate the minimum number of vehicles required each day to operate the proposed service.

**Note:** you must show all your workings.

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[2 marks]

- (d) Calculate the minimum number of drivers required each day to operate the proposed service.

**Note:** you must show all your workings.

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[2 marks]

3. WBC is considering a proposed new local bus service in Newlands, as described in the case study. Using the information provided in the case study,

(a) State which drivers hours rules apply to the drivers working on the proposed service.

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[1 mark]

(b) Calculate the minimum number of vehicles required each day to operate the proposed service between 06.00hrs and 09.00hrs.

**Note:** you must show all your workings.

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[2 marks]

(c) Calculate the minimum number of vehicles required each day to operate the proposed service between 09.30hrs and 17.00hrs.

**Note:** you must show all your workings.

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[2 marks]

(d) Calculate the minimum number of vehicles required each day to operate the proposed service between 17.10hrs and 20.00hrs.

**Note:** you must show all your workings.

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[2 marks]

4. WBC is considering the proposal from UST for WBC to provide a 49-seat coach for a weekly tour to Chambéry, France.

Use the information provided in the case study to prepare a driver schedule for the first outward journey from Walvingham to Chambéry. Your schedule must start when the drivers begin work at the operating centre and end when the vehicle arrives at the secure parking area in Chambéry.

**Notes:** You **MUST** give a start time and finish time for each activity.  
You **MUST** give a clear description of each activity.  
You **MUST** show the destination for all driving periods.  
You **MUST** show local time throughout.  
You are **NOT** required to show separate driving periods or driver changeovers between Coquelles and Troyes and between Troyes and Chambéry.

| Start time | Finish time | Activity description |
|------------|-------------|----------------------|
|            |             |                      |
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[11 marks]

- WBC is considering the proposal from UST for WBC to provide a 49-seat coach for a weekly tour to Chambéry, France.

Use the information provided in the case study to calculate the total cost to WBC and the amount to be quoted to UST for the first return journey, to Chambéry and back to Walvingham.

**Note:** You **MUST** name each cost and show all your workings to the nearest 1p.

[illegible]

**[14 marks]**

6. WBC employs drivers who work under Regulation EC561/2006 and/or under the provisions of GB Domestic drivers hours rules.

(a) Outline **TWO** provisions of Regulation EC561/2006 that relate to driver breaks.

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[4 marks]

(b) Outline **TWO** provisions of GB Domestic drivers hours rules that relate to driver breaks.

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[4 marks]

7. When WBC submits its application to the Traffic Commissioner to register the standard local bus service in Newlands, it must provide certain details of the proposed route.

Give **SIX** details relating to the service’s route that WBC must provide in its application.

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[6 marks]

If additional answer space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

[illegible]

[illegible]