



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

Examination Details:

Paper Title:	Dec 2021 Series P2 (Passenger Transport) Case Study
Paper No:	CPCP21221
Date of Examination:	10/12/2021 13:00 - 15:15

Instructions to the candidate - to be read before the examination

Time allowed: 2 hours 15 minutes

You may use:

- a calculator
- a dictionary
- any permitted written materials

Instructions

- Complete your name and your centre name on the question sheet in capital letters and include your date of birth, candidate registration number and signature.
- Use black ink.
- 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.

Information

- The total mark for this paper is 60.
- The marks for each question are shown in brackets ().
- This document has 5 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.
- Covid-19: Candidates will not be questioned on any temporary rules introduced due to Covid-19. Answers that reflect such measures will not be credited.





Background

GP Services Ltd, (GP) is a passenger transport company, operating bus and coach services throughout Great Britain. You are the nominated transport manager for GP, which holds a Standard International operator licence, authorising 10 vehicles at its only operating centre at Alton in Hampshire. Alton is in the London and South East of England Traffic Area. GP has a purpose-built workshop on its freehold site and all maintenance is done in-house. One of your short-term plans is to digitise GP's maintenance records and to load all of the drivers' company smartphones with an application for their daily walkaround checks. The application which you have chosen allows you to personalise the checks to suit your vehicles.

GP currently operates six coaches on a mixture of private hire and contract work, as well as four buses on local services.

Company policies

- All drivers are scheduled for 15 minutes for walkaround checks at the start of every shift.
- Drivers are instructed to always take breaks as late as possible and for the shortest possible time, (except when on board ferries or trains).
- The company and its drivers have a workforce agreement in place, whereby they have agreed not to apply the 10-hour night work limit.
- All company vehicles are depreciated at 20% per annum.
- A 20% mark-up is applied to all costs when preparing quotations and tenders.

Current operations

GP regularly provides coaches for the British Archery Society, (BAS), taking them to regional and national events across the country. In September 2021, you added a new 49-seat coach to your fleet, fitted with a driver's bunk and a toilet/washroom, to be used for all BAS work as well as for other private hire clients.

Future work

The owners of a new vegetable processing plant in Alton, Hampshire Processing Ltd (HP) have approached you and asked you to prepare a quotation for a staff transport service to bring their staff into the plant from neighbouring towns and villages. You are considering whether to provide this as a private contract for HP or whether to register and operate local services to cover their requirements. Whichever option is chosen, you will need to buy three additional vehicles for the service

Proposed Local Bus Services to cover HP's requirements

HP have given you an indication of the areas from which their staff are likely to travel and you have identified three possible bus routes, all using HP's processing plant as their terminus. All services will be available to the public and nowhere on any of the routes will there be more than 15 miles between bus stops.

Route details are on the following page. Each route will depart from HP's plant every hour on the hour.





Route 1. (Round trip)

	Journey Time (minutes)	Layover Time (minutes)
HP Plant		10
to	5	
Alton town centre		5
to	10	
Bentley		0
to	10	
Farnham Station		5
to	5	
Farnham Centre		10
to	20	
Alton		5
to	5	
HP Plant		

Route 2. (Return route is outward route reversed)

	Journey Time (minutes)	Layover Time (minutes)
HP Plant		20
to	10	
<u>South Warnborough</u>		0
to	8	
<u>Odiham</u>		0
to	6	
Hook		10

Route 3. (Return route is outward route reversed)

	Journey Time (minutes)	Layover Time (minutes)
HP Plant		30
to	10	
Four Marks		0
to	10	
Alresford		10
to	20	
Winchester		10
to	30	
Eastleigh		30

All buses will operate for 15 hours each day, 7 days a week, including walkaround check time and travelling time from and to GP's operating centre. Bus drivers will all work 9-hour shifts and 5-day weeks. Sickness and holiday cover for the bus drivers will be provided by using spare coach drivers.





BAS have asked you to prepare an itinerary and a quotation for a trip to Drogheda in Ireland in March 2022, where they will be competing in the Irish Archery Championships. Their requirements are set out below.

British Archery Society (BAS) Drogheda trip information

- The trip will operate using the 49-seat coach.
- Passengers will be picked up at GP's offices in Alton and at BAS's office in Peterborough.
- Loading of passengers in Alton will take place while the driver carries out his walkaround check
- Loading of passengers and luggage in Peterborough will take 1 hour (driver assisting).
- The ferry crossing to Ireland will be from Liverpool to Dublin, departing from Liverpool docks at 0930hrs and arriving at Dublin docks at 1730hrs.
- BAS has booked and paid for cabins for everyone on the ferry.
- Check-in and embarkation at Liverpool docks will take 30 minutes (to be recorded as Other Work).
- Disembarkation (recorded as Other Work) in Dublin docks will take 10 minutes.
- On arrival in Dublin, the group wish to travel directly from the docks to Dublin Town Hall, where a reception has been arranged by the Irish Archery Association. The group must arrive here at 1800hrs and leave at 2115hrs. The driver is not required to attend this function.
- After the reception, the group will travel directly to their hotel in Drogheda.
- The coach will be required to transport the group to local venues for competitions while in Drogheda, covering a total of 150km.
- The Archery Society will pay the ferry costs and the driver's accommodation costs directly.

Drogheda trip route information

From	To	Distance (km)	Speed (kph)
GP's operating centre	BAS offices Peterborough	210	70
BAS offices Peterborough	A50 services	105	70
A50 services	Liverpool docks	175	70
Dublin docks	Dublin Town Hall	15	45
Dublin Town Hall	Drogheda	60	60

Table 1

Average speeds given in Table 1 above take account of passenger boarding and alighting times at all points after leaving Peterborough. The return journey from Drogheda to Peterborough and Alton will follow the outward route (reversed).



**Financial and operating information for the 49-seat coach**

Purchase price (including tyres)	£280,000
Tyre cost per tyre (8 tyres on the coach)	£350
Expected tyre life (km)	70,000
Annual standing cost (excluding depreciation)	£36,000
Expected annual usage	240 days
Fuel consumption	4kpl
Maintenance cost per km	£0.24
Fuel cost per litre	£1.35
Driver's wage per day	£150
Driver's daily subsistence payment	£20

Table 2



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- the case study

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- 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 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 9 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.
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To be signed by the candidate:

Candidate name:		Centre name:	
Candidate date of birth:		Candidate registration number	
Candidate signature:			





Question 1

The chairman of The British Archery Society (BAS) has to inform all its members of the details of their trip to Drogheda in March 2022 and has asked you for an itinerary

Prepare a single-manned driver schedule for the outward journey to Drogheda, leaving GP's operating centre at the latest possible time, while still meeting all the requirements of the archery society.

Your schedule must begin when the driver commences duty at GP's operating centre in Alton and end when he arrives at the hotel in Drogheda.

NOTES

When scheduling driving, the stage destination **MUST** be stated on each line.

The driver's activity **MUST** be stated on each line.

Start time	Finish time	Driver activity description

(13 marks)





Question 2

In addition to an itinerary, the chairman of the archery society has also asked for a total price for the entire round trip.

The coach for this trip will be single-manned and for costing purposes, you should assume 6 days use of the coach. Use the information provided in the case study to calculate the total cost to GP of the 6-day round trip and the amount to be charged to BAS.

NOTES

You **MUST** show ALL of your workings.

You **MUST** name each cost, giving a total for each, rounded up to the nearest 1p.

Area with horizontal dotted lines for writing.

(12 marks)





Question 3

As part of your plans to digitise the maintenance records of the company, you are introducing a smartphone application (app) for the drivers' daily walkaround checks. The app that you have chosen requires you to specify the checks which drivers should carry out. Some checks, given below, are already loaded into the app.

Already in the app:

- Check all side, tail and headlights for correct operation.
- Check security of wheelnuts.
- Check tyres.
- Check security of seats

Outline **EIGHT** further check actions which you believe should be included on the app.

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(8 marks)



Question 4

You have decided that whether or not you decide to run the Local Bus Service operation, or to supply coaches to HP on a daily contract basis, you should base some buses at HP's plant, in order to free up space at your operating centre and also eliminate the daily travelling between your operating centre and the plant, from where the bus services start every day.

(a) Outline **FOUR** actions related to operator licensing which you will need to complete, before you are able to base buses at HP's site.

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(4 marks)

(b) Calculate the minimum level of financial standing which GP will have to prove if they go ahead with their plans as detailed in the case study.

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(3 marks)





Question 5

Should you decide to run the buses for HP as Local Services, you will first need to make an application to the Traffic Commissioner.

(a) Outline the **TWO** ways in which this can be done.

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(2 marks)

(b) Give **SEVEN** items of information which must be included with your application.

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(7 marks)





Question 6

Whether or not you decide to run the buses for HP as Local Bus Services, you will still need to determine the number of buses and drivers required. This will enable you to work out the fares to be charged.

Using the information in the case study:

(a) Calculate the minimum number of buses required to operate the three Local Bus Services without interworking any of them.

NOTE

You **MUST** show all your workings.

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(6 marks)

(b) Calculate the minimum number of drivers required to operate the three Local Bus Services each week, using the number of buses calculated in part (a).

NOTE

You **MUST** show all your workings.

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(5 marks)





Extra Sheet 1

Dotted lines for writing





Extra Sheet 2

Area with horizontal dotted lines for writing.



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