



Lesson Plan: Transport and Logistics

Time required for this lesson
60 minutes

Aim of the lesson

To introduce students to the Transport and Logistics occupational sector.

Learning outcomes

By the end of this lesson students should:

- have a greater understanding of the range of jobs in the Transport and Logistics occupational area
- have a greater awareness of the skills and qualities that are required to work in the transport and logistics sector
- have experienced working out a logistical problem and the skills and qualities required to do this
- have a greater awareness of what is happening nationally and locally in the area of Transport and Logistics

Resources required for this lesson

- 'Working in Essex, Southend and Thurrock - Transport and Logistics' leaflet obtained from www.stepon.org
- Match the Job Title to the Job Description Worksheet and Answer Sheet
- Logistics Exercise Worksheet and Answer Sheet
- Transport and Logistics Quiz and Answer Sheet

Introduction

Explain to the students that this collection of labour market leaflets has been produced by Connexions and the Learning and Skills Council. It is intended to be used as an information, advice and guidance resource to help them understand more about the trends in the labour market in Essex and to support the introduction of the new 14-19 Diplomas. Its ultimate aim is to help students with their decision-making regarding their future career plans. This lesson is all about the occupational area of Transport and Logistics and can support students who are thinking about working in the transport and logistics industry.



Activity 1

Modes of Transport Exercise (10 minutes)

Discuss with the students all of the different types of transport that they use in all aspects of their lives. For example to get to school, go on holiday, visit a friend or relative, go shopping. Get a volunteer to write up all of the different modes of transport on the board.

Now ask them to think about all of the different types of jobs that are linked to these modes of transport (e.g. airline pilot, bus/train driver, rail travel assistant).

Try and generate a discussion on how diverse the transport industry is, as all of the different types of transport that affect their lives have a whole army of people that have enabled that type of transport to be possible.

This will lead us onto the next exercise of looking at the different jobs in the transport and logistics industry and the range of skills and qualities that are required to carry out these jobs.

Activity 2

Match the Job Title to the Job Description (15 minutes)

Worksheet: Match the Job Title to the Job Description and Answer Sheet

Ask the students to work in pairs. Hand out the 'Match the Job Title to the Job Description Worksheet'.

Ask the students to look at the Job Descriptions on the worksheet and match them to the Job Titles in the table.

Once they have done this, ask the students to discuss with the person sitting next to them any skills and qualities that are required to carry out each of the jobs and make a note of them on the worksheet.

After 10 minutes get the students to feed back their answers. You can use the Answer Sheet to give out the correct answers.

Have a discussion with the class about how diverse the Transport and Logistics Industry is and that this is just a handful of the different jobs in this sector. Ask the class if they know anybody who works in the Transport and Logistics sector and what that work involves.

Discuss with the students if any of them are considering a career in Transport and Logistics and the skills and qualities that they have that will help them in this area of work.

Activity 3

Logistics Exercise (15 minutes)

Worksheet: Logistics Exercise and Answer Sheet

Divide the class into groups of four people. Give each group a copy of 'Logistics Exercise Worksheet'. In their groups they need to work out the solution to the situation being described.

After 10 minutes get each group to feed back their solution to the rest of the class. If none of the groups have worked out the correct answer you can use 'Logistics Exercise Answer Sheet' to give the correct solution to the problem.

Talk about the range of skills that were required to be used in the groups to work through this problem (e.g. teamwork, problem solving, leadership). Talk about how all these skills are important for working in the area of logistics. Ask the class what they have learnt from doing this exercise and if they found it enjoyable.

Activity 4

Transport and Logistics Quiz (15 minutes)

Worksheet: Transport and Logistics Quiz and Answer Sheet

Pupils will need a copy of the 'Working in Essex, Southend and Thurrock – Transport and Logistics' leaflet to be able to find the answers to the quiz.

The pupils can work on their own or in pairs to complete the quiz.

Give the pupils 10 minutes to complete the quiz and then spend the last five minutes going through the answers.

Plenary (5 minutes)

Ask the students to work in pairs and discuss with each other three skills and qualities that they have that would be useful for a job in the transport and logistics sector. If you have time ask for some volunteers from the group to feed back their skills and qualities.

End the session by going back over the aims and learning outcomes of the lesson with the students and asking them if they have any questions about anything that they have done.

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Activity 2

Match the Job Title to the Job Description – Worksheet

Read the Job Descriptions below and match them to the Job Titles in the table. The first one is completed for you as an example.

Discuss with the person sitting next to you any skills and qualities that are required to carry out each of the jobs and make a note of them below.

Job Title	Job Description	Skills and Qualities
Airline Pilot	H	the necessary standard of hand-to-eye coordination and motor skills, to be calm and level-headed under pressure, self-confidence and the ability to inspire confidence in others, good communication and teamwork skills, good management skills and commercial awareness.
Air Traffic Controller		
Logistics Manager		
Courier		
Airport Baggage Handler		
Train Guard		
Lorry Driver		
Lift Truck Operative		
Warehouse Worker		

Job Descriptions

- A.** Loads and unloads passenger luggage and cargo from aircraft, sometimes using computer-controlled systems.
- B.** Rides a bicycle, motorbike, or drives a van, collecting letters, packages and parcels for customers and delivering them to their destination on the same day.
- C.** Moves goods around places like warehouses, factories or docks.
- D.** Drives large goods vehicles (LGVs) and sometimes articulated trucks, to collect, transport and deliver goods.
- E.** Responsible for safety checks on trains, and signals the driver to start the train at the right time.
- F.** Works in a warehouse, receiving, storing and sending out goods such as food and drink, electrical and white goods, chemicals and medicines.
- G.** Gives instructions, advice and information over radio to pilots, to keep air traffic safe and efficient.
- H.** Flies aircraft on long or short journeys, all over the world.
- I.** Manages the movement of goods and materials for a company that uses their own transport.

Activity 2

Match the Job Title to the Job Description – Answer Sheet

Job Title	Job Description	Skills and Qualities
Airline Pilot	H	the necessary standard of hand-to-eye coordination and motor skills, to be calm and level-headed under pressure, self-confidence and the ability to inspire confidence in others, good communication and teamwork skills, good management skills and commercial awareness.
Air Traffic Controller	G	to be highly motivated, to be able to keep cool under pressure, to be able to calculate distances and angles, sustained powers of concentration, to think logically, to be good at working in a team, problem-solving and decision-making skills, a good standard of health, hearing and eyesight.
Logistics Manager	I	effective communicators and managers, flexible, creative problem-solvers, computer-literate, good at negotiating, prioritising and delegating, logical and practical, able to work to tight deadlines, prepared to work long hours at times.
Courier	B	to be able to drive carefully, good navigation skills, to be honest, dependable and reliable.
Airport Baggage Handler	A	the ability to work in a team, the ability to cope under pressure, practical skills, physically fit.
Train Guard	E	very safety conscious, able to work under pressure and to concentrate on the job in hand, willing to do shift work, including evenings and weekends, good at dealing with people.
Lorry Driver	D	to be able to pass a medical and driving examination and meet certain minimum eyesight standards, to be able to concentrate for long periods, some mechanical sense, good time-keeping skills, to be prepared to work unsocial hours.
Lift Truck Operative	C	to be able to pass a folk lift truck driving examination and meet certain minimum eyesight standards, to be able to concentrate for long periods, some mechanical sense.
Warehouse Worker	F	to be able to work accurately and methodically, be comfortable using ICT, work well in a team, lift and bend for some jobs.

Activity 3

Logistics Exercise - Worksheet

The story

Once upon a time a farmer went to market and purchased a fox, a goose, and a bag of beans. On his way home, the farmer came to the bank of a river and hired a boat. But in crossing the river by boat, the farmer could carry only himself and a single one of his purchases - the fox, the goose, or the bag of beans. If left alone, the fox would eat the goose, and the goose would eat the beans.

The farmer's challenge was to carry himself and his purchases to the far bank of the river, leaving each purchase intact. How did he do it?

Activity 3

Logistics Exercise - Answer Sheet

Solution

The first step must be to bring the goose across the river, as any other will result in the goose or the beans being eaten. When the farmer returns to the original side, he has the choice of bringing either the fox or the beans across. If he brings the fox across, he must then return to bring the beans over, resulting in the fox eating the goose. If he brings the beans across, he will need to return to get the fox, resulting in the beans being eaten. Here he has a dilemma, solved by bringing the fox (or the beans) over and bringing the goose back. Now he can bring the beans (or the fox) over, leaving the goose, and finally return to fetch the goose.

His actions in the solution are summarised in the following steps:

1. **Bring goose over**
2. **Return**
3. **Bring fox or beans over**
4. **Bring goose back**
5. **Bring beans or fox over**
6. **Return**
7. **Bring goose over**

There are seven crossings, four forward and three back.

Activity 4

Transport and Logistics Quiz – Worksheet

Using the 'Working in Essex, Southend and Thurrock Transport and Logistics' leaflet have a go at answering the questions below.

1. How many people does the UK passenger transport sector employ?

2. How many passengers does Stansted airport cater for each year?

3. How much is the UK logistics sector worth to the economy?

4. What is the annual average salary for a Train Driver in the UK?

5. What two major projects will increase employment in logistics in the East of England?

6. How many new employees will the logistics sector require by 2014 in the East of England?

7. Name some of the skills and qualities that it would be useful to have to work in the transport and logistics sector?

8. What is the website address for the Civil Aviation Authority?

Activity 4

Transport and Logistics Quiz – Answer Sheet

Using the 'Working in Essex, Southend and Thurrock Transport and Logistics' leaflet have a go at answering the questions below.

1. How many people does the UK passenger transport sector employ?

662,000

2. How many passengers does Stansted airport cater for each year?

22 million

3. How much is the UK logistics sector worth to the economy?

£74.45 billion

4. What is the annual average salary for a Train Driver in the UK?

£37,231

5. What two major projects will increase employment in logistics in the East of England?

Thames Gateway Development Project and 2012 London Olympics

6. How many new employees will the logistics sector require by 2014 in the East of England?

23,000

7. Name some of the skills and qualities that it would be useful to have to work in the transport and logistics sector?

Mature attitude, good concentration, good communication and customer service, remain calm in a crisis.

8. What is the website address for the Civil Aviation Authority?

www.caa.co.uk