



PD12

Transport and Society

Standards

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Unit purpose and aim

This unit addresses the issues surrounding transport and its relationship with society. It reviews the impact of demography, politics and environmental factors on the development of transport for both passenger and freight. A further key element is the effect of residential choices and employment patterns on transport needs.

Elements

- PD12-1 Society, Equality and Travel
- PD12-2 Environmental Issues
- PD12-3 Decision Making and People
- PD12-4 Residence, Leisure and Employment

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Element PD12-1

Society, Equality and Travel

Learning Outcomes

The learner will:

1.1. Know how to gather and interpret demographic statistics.

1.2. Understand the interaction between the development of transport and the development of society.

1.3. Understand how the categories of society are defined.

1.4. Understand how changes in society affect transport decisions.

1.5. Understand the link between the access to transport and life chances.

1.6. Understand the travel patterns of different groups and their specific mobility needs.

Assessment Criteria

The learner can:

1.1.1. Interpret and explain current demographic trends.

1.2.1. Define the importance of transport to the development of society.

1.3.1. Define socio-economic groups in terms of their travel requirements.

1.4.1. Analyse current trends in transport use.

1.5.1. Analyse the effect of transport policy on social exclusion.

1.6.1. Analyse the mobility requirements of different groups.

Indicative Content

Demographic statistics	Sources of statistics; population; household characteristics. Demographic profiles; small area statistics. Forecasting: population; household. Survey techniques and data collection.
Development of transport and societies	Historic development (UK): canals; railways; roads. Relationship between growth in transport and the economy. Urban development and form.
Categories of society	Socio-economic grouping. Socio-economic grouping in relation to: car ownership; travel habits.
How changes in society affect transport decisions	Changes in: car ownership; use of alternate modes of transport; freight transport. Current trends in transport use.
Access to transport and life chances	Social exclusion and transport. Accessibility and employment.
Travel patterns and mobility needs	The young; retired; elderly; mothers with children; disability and impairment.

Element PD12-2

Environmental Issues

Learning Outcomes

The learner will:

2.1. Understand the current environmental issues relating to transport and transport use.

2.2. Understand current government policies on the environmental effects of transport and the response of transport organisations.

2.3. Understand the current and future outlook on fossil fuels and their alternatives.

2.4. Understand travel behaviour management tools and their application.

Assessment Criteria

The learner can:

2.1.1. Analyse the tension between the demand for transport and the need to protect the environment.

2.2.1 Critically evaluate current government policies on the environmental impact of transport.

2.2.2 Analyse the thinking behind current EU environmental policies.

2.3.1. Identify the choices facing society in replacing fossil fuels with more environmentally acceptable alternatives.

2.4.1. Conduct an audit of the travel behaviour within a transport system.

Indicative Content

Current environmental issues	Noise; air pollution; safety; visual impact; vibration; global warming.
Current government policies	UK government and EU policy. Targets for reduction of environmental impact: nationally; locally. Traffic reduction act; local action; air pollution local authority responsibility.
Fossil fuels and their alternatives	Principles of motive power; internal combustion engine; products of internal combustion; reducing noxious emissions. Alternative sources of power: characteristics; constraints; electric and hybrid vehicles.
Travel behaviour management tools	Management; traffic; environmental; home zones; Telematics; Pricing mechanisms: parking charges; road-user charges; congestion charges.

Element PD12-3

Decision Making and People

Learning Outcomes

The learner will:

3.1. Understand the different political theories applied to transport.

3.2. Understand the impact of the political power-base on transport policy in a given country.

3.3. Know the decision-making process for transport policy making.

3.4. Understand the role and impact of pressure groups on the transport decision-making process.

Assessment Criteria

The learner can:

3.1.1. Analyse the effect of political theories on transport policy.

3.2.1. Analyse the modes of transport favoured by a particular political power-base.

3.2.2. Analyse the effect that a political power-base might have on the availability of subsidy.

3.3.1. Analyse the level of influence held by different societal groups on the political decision-making process.

3.4.1. Analyse the impact of pressure groups on a given transport decision.

Indicative Content

Political theories applied to transport	Nationalisation; privatisation. Regulated and deregulated markets.
The impact of the political power base on transport policy	Modes of transport in relation to political system; availability of subsidy; degree of state ownership; role of private sector.
Decision making process	The role of: government; Civil Service; Treasury; local and regional organisations. Governmental advisory/regulatory bodies.
Pressure groups	Principal pressure groups; industry; environment.

Element PD12-4

Residence, Leisure and Employment

Learning Outcomes The learner will:	Assessment Criteria The learner can:
4.1. Understand the relationship between land-use planning and transport.	4.1.1. Contrast the conflict of interest between business and population needs for transport.
4.2. Know the impact of transport on changing patterns in the demand for leisure.	4.2.1. Evaluate the significance of changing leisure patterns on transport needs.
4.3. Understand the effects of rural and urban dwelling patterns on the provision of passenger and freight transport.	4.3.1. Demonstrate the significance of transport in land-use planning.
4.4. Know the implications of changing employment patterns on transport provision.	4.4.1. Assess the trends and transport needs of the private sector.
4.5. Understand the differences in planning legislation and policy across the UK.	4.5.1. Identify the differences between the Welsh, Scottish and English planning systems.

Indicative Content

The relationship between land use planning and transport	Land use as a generator of trips; characteristics of travel in relation to different land uses; peak hour flows in relation to journeys to work.
Changing patterns of demand for leisure	Travel patterns: seasonally; weekly. Leisure patterns: sport; leisure; recreation; holidays. Impact on transport: air travel; access to airports.
Rural and urban dwelling patterns	Key differences in demand patterns; public transport requirements; role of the car; freight/delivery patterns.
Changing employment patterns	Density and distribution of employment; fringe developments; regeneration of inner urban areas.
Differences in planning legislation and policy across the UK	Welsh planning systems; Scottish planning systems; English planning systems.