



# PD04

## Transport Planning

### Standards

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# PD04

# Transport Planning

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## Unit purpose and aim

This unit presents the key generic aspects of transport planning. It provides the foundation of knowledge on the concepts and principles that govern the process of transport planning. The unit investigates the nature and purpose of transport planning, the interactions between transport and land-use and the process of transport planning.

## Elements

- PD04-1      Transport Planning
- PD04-2      Demand for Movement
- PD04-3      The Supply of Transport

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# Element PD04-1

## Transport Planning

### Learning Outcomes

The learner will:

- 1.1. Understand the nature and purpose of transport planning.
- 1.2. Understand the impact of historical developments and more recent trends on land use and transport planning.
- 1.3. Understand the principles of sustainability and their application to transport planning.
- 1.4. Know the administrative framework of land-use and transport planning.
- 1.5. Know the stages of transport planning.
- 1.6. Understand the relationship between transport planning and policy making.

### Assessment Criteria

The learner can:

- 1.1.1. Analyse the demand for transport.
- 1.1.2. Evaluate the issues of access and mobility.
- 1.2.1. Describe the features of a supply chain.
- 1.3.1. Analyse the interactions between transport and land use in terms of their economic, social, technical, environmental and developmental issues.
- 1.4.1. Evaluate the role of transport proposals within an integrated development strategy.
- 1.5.1. Develop and implement a four-stage transport plan.
- 1.6.1. Evaluate the impact of government and EU policy on transport planning and operations.

## Indicative Content

The nature and purpose of transport planning	Demand for movement: understanding; forecasting; meeting. Accessibility and mobility; access for elderly and disabled; accessibility audits.
The impact of historical and more recent trends on land use/transport planning function	Relationship between transport and development of urban areas; land-use and movement; land-use and planning. Economic impact; social exclusion; environmental impacts; traffic impact studies; Standard forms of appraisal.
Sustainability	Definitions; relation to land-use distribution and transport provision. Implications: length/distribution of trips; alternate modes; influences on travel behaviour. National/global air pollution levels: forecasting pollution; local environmental problems; legislation; targets; congestion problems and fears.
Administrative framework	Statutory planning system: development plans; regional planning guidance; development control; local transport plans; regional transport strategy. Statutory guidance: Planning and Transport Acts; PPGs; government policy documents.
The stages of transport planning	Four-stage model: trip generation; trip distribution; mode split; assignment. Implementation of transport plan.
Policy making	Government policy on transport: passenger; freight. Transport investment: Transport 2010. Multi-modal transport studies. The role of the EU. Transport integration: within modes; between modes; with land-use; with other government departments. Transport systems and land use policy: density; brownfield development; transport development zones; mixed-use development.

# Element PD04-2

## Demand for Movement

### Learning Outcomes

The learner will:

- 2.1. Know the causes of the demand for movement.
- 2.2. Understand the current trends in the demand for movement.
- 2.3. Know the sources of data on travel behaviour.
- 2.4. Know how to develop future strategies.

### Assessment Criteria

The learner can:

- 2.1.1. Analyse the current demand for transport.
- 2.2.1. Evaluate the factors that influence the demand for transport.
- 2.3.1. Analyse past trends and develop forecasts.
- 2.4.1. Develop strategies to take account of future forecasts.

## Indicative Content

Causes of demand for movement	Trip generation; TRICS database; trip purpose. Vehicle ownership. Capacity constraints in systems. Distribution of trip making. Land use. Choice of mode. Travel times. Cost/demand management.
Current trends in the demand for movement	Changes in demand for movement by mode: passenger; freight. Forecasts in demand.
Sources of data on travel behaviour	Travel studies; multi modal studies; government transport statistics. Research on travel behaviour; statistical techniques.
How to develop strategies for the future	Use of travel demand forecast. Future demand strategy evaluation. Effects of alternative policies. Attitudes to environmental quality. Social inclusion and ways of addressing social exclusion.



# Element PD04-3

## The Supply of Transport

<b>Learning Outcomes</b> The learner will:	<b>Assessment Criteria</b> The learner can:
3.1. Know the available options for the supply of transport.	3.1.1 Compare and contrast different transport options in a given context.
3.2. Understand the characteristics and constraints of transport modes.	3.2.1. Analyse the suitability of different modes in a given context.
3.3. Understand the principles of integration within and between different transport modes.	3.3.1. Apply the principles of integration in transport operations.
3.4. Understand transport provision in regulated and de-regulated markets.	3.4.1. Analyse the effectiveness of different types of market in the provision of transport.
3.5. Understand the different approaches to demand management.	3.5.1. Evaluate different approaches to demand management. 3.5.2. Assess the costs and benefits of transport supply to society.

## Indicative Content

Transport supply option	Passenger systems; freight systems. Road-based; heavy/light rail; air; water.
Characteristics and constraints of transport modes	Physical characteristics; operational characteristics. Capital; operational costs.
The principles of integration within and between modes	Definition of integrated transport systems. Seamless journey. Design principles of interchange. Application of integrated transport concepts.
Transport provision in regulated and de-regulated markets	Regulation; de-regulation; privatisation. Railways; road transport; air; shipping.
Different approaches to demand management	Traffic management techniques: parking controls; lane exclusion; partial bans on drop/pick-ups; pricing; traffic-free zones; park and ride; traffic calming. Traffic control. Costs and benefits for individuals, society and the environment. Priorities for investment. Education/attitudinal shifts. Standard evaluation techniques.