

# TPP GUIDANCE NOTES FOR CANDIDATES

**Appendix 2:**

**Technical Skill Units: Knowledge requirements**

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| **Technical Skill Units: Knowledge requirements****POLICIES AND REGULATIONS** These requirements are about the key frameworks within which Transport Planners work, and which they need to understand. |
| **A1 The Policy Context**You need to demonstrate that you have obtained **Knowledge** of the policy and administrative framework within which transport schemes are developed, assessed, financed, monitored and reviewed. Your assessors will be looking for evidence that demonstrates your learning covers the key aspects of: * the principal national, regional and local documents defining, and the main objectives of, national, regional and local policies relating to transport and the built environment, as well as proposed changes
* the structure of central, devolved or regional, and local government relating to transport policy and plans, the management of transport systems and the delivery of transport services, as well as the principal responsibilities of each of the different elements of the structure
* key trends in Government, regional and local policy development, and issues of growing public concern, relating to transport and the built environment
* procedures for the approval of transport policies, plans and projects.
* how to monitor and review the performance of transport policies, plans and services
* how other related disciplines have an impact on transport planning
* the need for professional and ethical conduct in transport planning, and

ways of achieving safety in transport systems |
| **A2 Laws and Regulations** You need to demonstrate that you have obtained **Knowledge** of the framework of laws, regulations and guidance within which transport planners work. Your assessors will be looking for evidence that demonstrates your learning covers the key aspects of:* current statutory and regulatory requirements and guidance and best practice relating to the preparation of transport policies, plans and schemes
* how transport projects and services are funded, and the key factors pertaining to the availability of funds
* the framework of laws, regulations and guidance governing:
* health and safety
* equality and disability discrimination
* environmental impact
* development planning
* provision and operation of land transport, and of transport by air and water to the extent that you are involved directly in these.

In so far as your learning and experience to date have required you to work with these laws, regulations and guidance. |

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| **TOOLS AND TECHNIQUES** These requirements relate to data, modelling and assessment in the development and assessment of transport policies, plans, projects and services. |
| **A3 Data**You need to demonstrate that you have obtained **Knowledge** of the collection, retrieval, analysis and interpretation of data for use in the development and assessment of transport policies, plans, projects and services. Your assessors will be looking for evidence that demonstrates your learning covers the key aspects of: * the principal sources of transport statistics and data, and their key characteristics
* the methods of data collection used for transport planning, and their relative strengths and weaknesses
* the principles of transport survey data processing and analysis.
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| **A4 Transport Models and Forecasting**You need to demonstrate that you have obtained **Knowledge** of transport and traffic models and related analysis techniques used in the development, design and assessment of transport policies, plans and schemes. Your assessors will be looking for evidence that demonstrates your learning covers the key aspects of: * the principles, key characteristics and appropriate use of the main types of transport and traffic model
* the principles of transport model system design, specification, calibration/estimation and validation, and application, including the role of data in all stages of modelling
* the potential limitations of transport models and how model outputs should be interpreted and applied
* the principles and key characteristics of the main analysis techniques used in transport planning, including qualitative and quantitative research, cross-sectional and longitudinal analyses, GIS and spatial analyses and accessibility.
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| **A5 Appraisal and Evaluation**You need to demonstrate that you have obtained **Knowledge** of assessment techniques in the appraisal of transport policies, plans and schemes Your assessors will be looking for evidence that demonstrates your learning covers the key aspects of:* the principles and key characteristics of the standard assessment techniques used in transport planning, including economic assessment, multi-criteria assessment, and the use of assessment frameworks
* the principles of monitoring the performance and impacts of transport policies, plans, including important interactions between classes of impact, the distribution of impacts, and the key underlying economic and statistical principles
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| **A6 Stakeholder Engagement**Your assessors will be looking for evidence that demonstrates your **Knowledge** covers the key aspects of:* the principles of community involvement, stakeholder engagement and public consultation in the identification of transport needs and in the development of transport policies, plans, projects and services, including the main alternative approaches and their relative effectiveness
* when it is appropriate to initiate community involvement, stakeholder engagement or public consultation programmes in a transport context
* the principal functions and responsibilities of those usually involved in community involvement, stakeholder engagement and public consultation in transport planning
* how best to engage with those involved and the media.

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| **DESIGN**These requirements relate to the application of transport planning expertise in the preparation of transport plans and the principles underlying the design of transport schemes. |
| **A7 Developing strategic and master plans for transport**If this is one of your Chosen Units you need to demonstrate that you have obtained **Knowledge** of the process of developing transport plans for the medium to longer term. Your assessors will be looking for evidence that demonstrates your learning covers the key aspects of: * the principles of planning practice in the development of transport plans
* the key components of transport plans
* the key stages in the development of transport plans
* the principal interrelationships between transport, economic activity and land use
* determining priorities in the development of action plans
* procedures for obtaining the participation of interested parties and stakeholders in plan development
* the procedures for the formal adoption of transport plans prepared by regional and local authorities
* the procedures for the formal approval of master plans for specific sites and their environs.
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| **A8 Applying the principles of transport systems design** If this is one of your Chosen Units, your assessors will be looking for evidence of **Knowledge** relating to the principal characteristics of transport systems: * their relationship with integrated transport, accessibility, security, and health and safety, and how this knowledge can be used to develop and implement innovative solutions to prevailing problems
* the main data sources relating to the principal performance and other key characteristics of the main transport modes and systems for local, rural and inter-urban transport
* the operating and practical constraints of the main transport modes and systems
* the needs and wishes of transport users, as can be reasonably determined
* the principal interrelationships between transport, economic activity and land use.
* current transport statutory and regulatory requirements, guidance and procedures and best practice relating to development, planning, design and implementation of transport schemes and to design for accessibility, safety and personal security.

The principal types or aspects of transport systems for which the required knowledge can be demonstrated include: |
| * highways
* streetscape design
* traffic management, calming and control
* road safety
* traffic and parking information systems
* cycling
* walking (pedestrians)
* parking
* taxis
 | * buses
* intermediate public transport
* voluntary and community transport
* light rail
* rail
* airports
* freight traffic and distribution
* ports
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| **OPERATIONS**These requirements relate to the role of transport planners in the operational management of transport systems. |
| **A9 Travel Planning** If this is one of your Chosen Units, your assessors will be looking for evidence of **Knowledge** relating to the key aspects of the identification of sustainable travel options and their promotion to individual transport users to improve economic, social and environmental sustainability, including * the most significant socio-economic, health and environmental consequences of travel by different modes
* opportunities for and obstacles to changes in travel behaviour
* the stages that individuals and organisations go through when changing behaviour
* ways of identifying existing individual and household travel patterns
* the toolkit of measures available to encourage travel behaviour change and their relevance to various groups of travellers.
* how to evaluate alternative travel behaviour change programmes to determine which are likely to be most effective as part of a broader strategy
* obtaining ‘buy-in’ from individuals and organisations to travel plans,
* the availability and nature of possible capital and revenue funding streams to deliver travel plans
* the use of targets and indicators in monitoring and evaluating the effects of travel plans on travel behaviour, having regard to difficulties of detection and measurement.
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| **A10 Commercial and operational management of transport systems**If this is one of your Chosen Units, your assessors will be looking for evidence of **Knowledge** relating to the key aspects of :* the operational and commercial management of transport systems and services, including specific elements of those systems and services. :
* current statutory and regulatory requirements, guidance, best practice and procedures relating to operational and commercial management of transport systems and services, and how to assess the possible impacts of laws, regulations, staff agreements, trade union positions and similar constraints on changes in transport system management
* the nature of commercial risk in transport operations and how to manage it
* how to identify possible sources of, and bid for, funding for management schemes for transport.

You can demonstrate that knowledge in the context of one or more of: |
| * pedestrian and cycle routes and networks
* area-wide traffic and environmental management
* traffic control systems
* traffic and parking information systems
* transport safety
* road user charging/user toll systems
* area-wide on-street parking
* bus network and service design
* bus operations
* bus location and arrival time systems
 | * public transport fares and ticketing systems
* voluntary and community transport
* rail operations
* transport information systems
* aviation operations
* road freight distribution systems
* inter modal freight systems
* logistics systems
* enforcement systems
* maintenance and asset management systems.
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