



The Principles of Traffic and Transport 20-Week Evening Lecture Series, UAE

Overview

This evening lecture programme was launched in the United Arab Emirates in 2022 to be delivered on an annual basis. The 20 week lecture series was conceived and first delivered in 2005 in the United Kingdom; this concept has continued with an introduction each week of a different components of transport planning and traffic engineering



The Chartered
Institute of Logistics
and Transport



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The Principles of Traffic & Transport

20-Week Evening Lecture Series



Introduction

The transportation system is being asked to play a greater role in society these days as we strive to: move people; fuel the economy; be more energy efficient; and address the role of the automobile in climate change. These are broad themes that will affect the transportation profession for years to come, however at the 'street level' there is still the day-to-day of designing, operating, evaluating and improving transportation systems in cities and towns.

Whether you are new to the transportation industry, are looking to refresh your knowledge on transportation principles, or if you have taken on a new responsibility or are working in a 'niche area' and wish to broaden your knowledge, PTRC's 20 week evening lecture series offers a cost-effective and time-inexpensive training course that will benefit both the participating employee and their employer.

Structure

The series will consist of 20 lectures delivered by local experienced transportation practitioners from consultancies, local authorities and governments, who are experts in their field. Each module will cover a specific topic and the content has been devised as far as possible to cover the typical principles of a transportation scheme.

Tutors will be encouraged to design interactive sessions to accompany their talk and there will be plenty of time for discussion and questions, and may also open up opportunities for networking.

Learning Outcomes

On completion of the course, delegates will:

- ✓ Have an understanding of the wider transport planning industry beyond their niche area of knowledge
- ✓ Understand the relevant institutional, legal and political policy context for transport policy
- ✓ Understand the roles, responsibilities and powers of highway, traffic and planning authorities
- ✓ Have knowledge of planning and designing traffic surveys, and the role and importance of transport surveys
- ✓ Have knowledge of the essentials of transport modelling and understand the role it play in scheme appraisal and masterplanning
- ✓ Understand the concepts of speed, flow, and capacity

Certificate of Attendance

Delegates attending a minimum of 80% of the lectures will be awarded a CILT(UK) CPD certificate of attendance.

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The Principles of Traffic & Transport 20-Week Programme ❄️



Module 1: Transport Policy

UAE and Dubai national, regional and local transport, land use and planning policies.

Module 2: Delivering Transport Infrastructure Legislation, Regulation & Funding

Roles and responsibilities of transport, highways and planning agencies in UAE; Keyhighways, planning and transport legislation, Funding and finance for transport schemes.

Module 3: Data Collection

Common types of transport surveys; Emerging data collection techniques; Survey planning consideration; Welfare and health and safety; Interpreting and analysing survey data.

Module 4: Traffic Flow, Speed & Capacity

Measuring flow and speed; Capacity, Speed flow relationships; Junction delays.

Module 5: Urban Street & Highway Design

Design principles, accessibility, movement and place; Design standards for signs, carriageway markings and lighting; Road hierarchy and right of way

Module 6: Traffic Management

Traffic management techniques; Legislations; Best practice design for traffic management; Public transport and cycling priorities; Oneway systems.

Module 7: Parking

Policy issues; Standards; Equipment; Charging and pricing; Residents parking; Enforcement.

Module 8: Traffic Signal Control

Justification, Capacity, Coordination, Special facilities, Pelican crossings, Cycle crossings, use of models, UTMC, ITS, Information systems, Intelligent Mobility.

Module 9: Priority Junctions

Priority junctions; Roundabouts; Signalled roundabouts; Types and use of models; Design standards; Capacity.

Module 10: Road Safety

UAE and GCC safety record; Accident statistics and analysis; Costs of accidents; Safety audit; Remedial schemes and justification; Education, training and enforcement; Vulnerable road users.

Module 11: Speed Management

Traffic calming, Schools, Enforcement, camera use, Home Zones.

Module 12: Walking, Cycling & Accessibility

Cycling and walking in wider policy context; Reasons for cycling and walking; Barriers; Strategies to encourage cycling and walking; Infrastructure design; Training; Wayfinding; Accessibility.

Module 13: Bus Coordination

Role of buses; Trends in use; Interchanges and information; Fares and Ticketing; BRT; Bus scheduling and planning.

Module 14: Local Rail & Rapid Transit

Different types of rail and rapid transit systems; Station and interchange design principles; New services; Scheduling.

Module 15: Transport Modelling 1

Introduction to the use of models, Relevance of various models, Data requirements.

Module 16: Transport Modelling 2

The four stages of modelling, Modelling smarter choices, Principles of benchmarking.

Module 17: Transport Economics & Appraisal

Appraisal process, Cost benefit analysis, Framework appraisal, Business case, Environmental effects.

Module 18: Transportation Impact

TIS process and methodology; National and local policies and guidelines; Good practice in development control.

Module 19: Managing Demand

Principles of travel demand management; Definition of 'soft measures'; Travel awareness; Travel plans; Personalised travel planning; Road User Charging; SALIK; Workplace charging levy; Freight management.

Module 20: Consultation & Participation

Stakeholder and public engagement; Communications plans; Media relations; Nontechnical writing for decision-makers.

*Please note that this is a preliminary programme and is subject to change

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