

Great lecture series with very informed speakers.
A terrific refresher on all things related to
transportation planning.
2018 Lecture Series Delegate



The Principles of Urban Traffic and Transportation

20-Week Evening Lecture Series, Toronto
January 2020 - June 2020

Organized by

PTRC in partnership with the Toronto Section of The Institute of Transportation Engineers
and Chartered Institute of Logistics and Transport North America



Hosted by



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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 the local transportation system in our 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.

This evening seminar program has been running in Europe for over fifteen years. After the success of the program in Toronto in 2018 -2019, PTRC will again be running the series from January 2020 - June 2020.

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. Presenters will be drawn from consulting firms, local agencies, academia and other government bodies. Each lecture will cover a specific topic and the content has been developed 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.

Certificate of Attendance



Delegates attending a minimum of 80% of the seminars will be awarded a CPD certificate of attendance. Each lecture counts as one hour CPD.

Cost for the lecture series

Standard fee: \$1200

Full series of seminars

Student fee: \$600

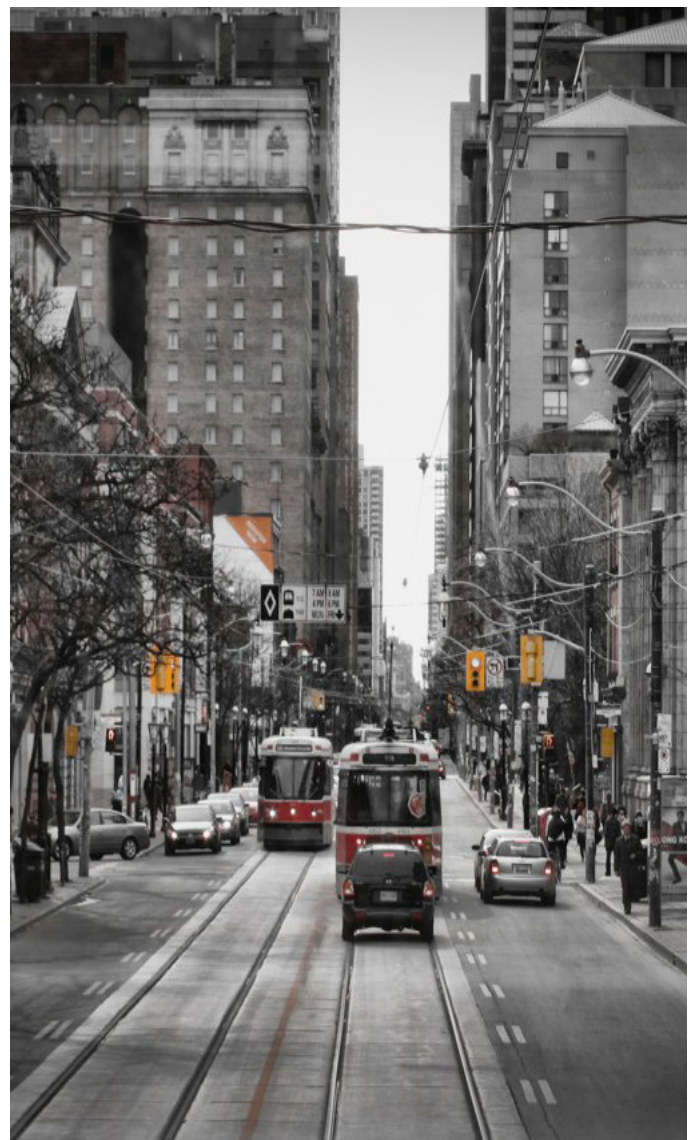
Limited student places available

ITE/CILTNA member: \$1080

Five pack: \$400

Select any five modules

Individual modules: \$80 each



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Programme

Module 1

Transport Policy Introduction

- National, regional and local policies
- Land use policies
- Policy framework
- Mix of urban transportation modes

Module 2

Agency Roles and Responsibilities

- Levels of government
- Regulatory framework
- Transport planning operations
- Funding

Module 3

Data Collection

- Need for data
- Forms of data collection
- Emerging techniques
- Processing, interpreting & reporting
- Health and safety

Module 4

Traffic Flow, Speed and Capacity

- Speed flow relationship
- Capacity and level of service
- Junction delays
- Traffic simulation and visualization

Module 5

Urban Street and Highway Design

- Design Principles
- Signage and lighting
- Access management
- Context-sensitive design

Module 6

Traffic Management

- Laws and regulations
- Efficiency and safety objectives
- Traffic management techniques
- Active traffic management

Module 7

Parking

- Policies and standards
- On- and off- street parking issues
- Management and enforcement
- Parking for new development

Module 8

Traffic Signal Control

- Justification
- Capacity and coordination
- Pedestrians and cyclists
- Use of models
- ITS

Module 9

Unsignalized Intersections

- Functional classification
- Design standards
- Non signalled intersection
- Roundabouts
- Urban Streets

Module 10

Road Safety

- Canadian safety record
- Types of accidents
- Education, training & enforcement
- Road safety audits

Module 11

Speed management

- Traffic calming
- Types of speed management
- Use of cameras
- Homezones

Module 12

Walking, Cycling and Accessibility

- Policies and strategies
- Non-motorized transportation
- Bikeways
- Wayfinding
- Social inclusion and accessibility

Module 13

Public Transportation: Bus

- Policy objectives
- Scheduling, planning & operations
- Fares and ticketing
- Performance monitoring

Module 14

Public Transportation: Rail

- Policy objectives
- Commuter Rail
- Stations and interchanges
- Special needs transportation
- Ferries, Taxis, jitneys

Module 15

Transportation Modelling 1

- Fundamentals of modelling
- Relevance of various models
- Geographical information systems
- Data requirement

Module 16

Transportation Modelling 2

- Four stages of modelling
- Applications and Limitations
- Emerging modelling

Module 17

Transport Economics and Appraisal

- Microeconomic concepts
- Project evaluation
- Framework appraisal
- Equity issues in transportation
- Environmental effect

Module 18

Transportation and Land Development

- Land use/transportation interaction
- Trip generation
- Transport impact assessments
- Mitigation strategies

Module 19

Managing Demand

- Definition
- Applications
- 'Soft' vs. 'hard' measures
- Travel planning
- Passenger and freight

Module 20

Consultation and Participation

- Regulatory requirements
- Public involvement
- Communication strategies
- Media relations

Further booking information

For further information or to book on to the series, please fill in the attached form and send to info@ptrc-training.co.uk

