



جمعية هندسة الطرق الخليجية  
Gulf Road Engineering Society

تعريف بالدورة:

ستختص هذه الدورة بشرح كيفية استخدام برنامج VISUM الذي يعتبر أحد أهم برامج النقل المستخدمة في مجال تطوير نموذج النقل لما يتمتع بمرونة جيدة في عملية النمذجة وكذلك أسلوب عرض البيانات سواء من بداية عمليات النمذجة وإنهاءً بإظهار نتائج التخصيص على شبكة النقل .

وسيقم شرح كيفية تكويد شبكة الطرق من خلال البيانات التي تم تجميعها وكذلك تزويدها بالبيانات الخاصة بالمرور: عدد المسارات، السعة، أماكن التقاطعات الرئيسية، العلاقة بين السرعة وتدفق المرور.

Three Days Training Program

دورة تدريبية لمدة ثلاثة أيام

# تطوير نماذج النقل للمناطق الحضرية باستخدام برنامج VISUM - تدريب عملي -

## Traffic Modeling for Urban Areas Using "VISUM"

Hands-on experience with Modeling and Application

بنهاية الدورة سيتم كل متدرب شهادة مختومة بالختم الرسمي للشركة المنتجة لبرنامج VISUM

Mobility within an urban area is the measure of the quality of life and a vital issue facing urban areas as they grow and their transportation facilities become overcrowded. The techniques to improve traffic flow are ranging from traffic signal timing optimization to minor physical changes, such as adding a lane. Evaluating the effectiveness of these techniques can be done through number of methods which can effectively evaluate changes in the performance of an intersection or an arterial. However, the important issue is to connect these individual components in order to form the traffic network using transportation planning and modeling techniques.

The purpose of the course is to provide professionals with a basic training on the principles and proven techniques in the practice of building traffic models using VISUM software.

VISUM is used to build conventional four stage models for regional and state-wide planning while also serving as a powerful analysis and data management tool for traffic engineers and transportation planners.

The course introduces practitioners to the transportation model "VISUM" in a gradual way and shows how to model the various stages of the traditional sequential transportation model using VISUM.

The contents of this course will ensure that the trainer would have hands-on experience with modeling using VISUM. The course will include workshop sessions and will introduce participants to the use of computer solutions to transportation planning and design problems using VISUM.

Each Trainer will obtain "if passed successfully" a certificate Stamped by PTV official Stamp "VISUM Company Producer"



30 October - 1 November. 2010, Dubai

## Registration Form

Name : \_\_\_\_\_ : الاسم  
Membership #: \_\_\_\_\_ رقم العضوية Position : \_\_\_\_\_ : الوظيفة  
Company: \_\_\_\_\_ : الشركة  
Mob.: \_\_\_\_\_ : المتحرك Tel.: \_\_\_\_\_ : الهاتف  
Postal Code: \_\_\_\_\_ : الرمز البريدي P.O. Box: \_\_\_\_\_ : ص.ب.  
Country: \_\_\_\_\_ : الدولة City: \_\_\_\_\_ : المدينة  
E-mail: \_\_\_\_\_ @ \_\_\_\_\_ : البريد الالكتروني

Method of Payment طريقة الدفع

Payment in Advance تسدد الرسوم مقدماً

Cheque شيك

Cash نقداً

3001 710 489 500 تحويل بنكي باسم جمعية هندسة الطرق الخليجية الى البنك العربي - دبي حساب رقم

Bank transfer to Gulf Road Engineering Society , Arab Bank, Dubai Branch, Acc. No. 3001 710 489 500

## Course Highlights

### Day One:

- Introducing the basic definitions and levels of transportation planning.
- Areas of application of VISUM
- The VISUM User Interface (Screen display, Processing modes, Network objects, Graphic objects, and Filters)
- VISUM Basics (Creating a project folder and File types)
- Workshop session hands-on training on VISUM

### Day Two:

- Transport systems, modes of transport and demand segments
- Network Coding (Nodes, Links, Turns, Lists, Zones, Connectors, Checking the network)
- OD Matrices
- Workshop session hands-on training on VISUM

### Day Three:

- Assignment
- Extracting Results
- Level of Services for the road links
- Extracting turning movements at junctions and interchanges
- Applying flow bundles and looking for shortest path
- Graphical Display and Network Analyses
- Workshop session hands-on training on VISUM

## Course Fee

Students	GRES Members	Non Members
Dhs 1000	Dhs 3500	Dhs 4000

For registration send this completed form with appropriate fee to

Gulf Road Engineering Society

www.gres.ae

Email: gres@eim.ae

Tel.: (+9714) 29 600 44 Fax: (+9714) 29 600 45

### Course Objectives

The main objectives of this program are as follows:

- 1- Introducing the basic definitions and levels of transportation planning.
- 2- Areas of application of VISUM
- 3- VISUM Basics (Creating a project folder and File types)
- 4- Transport systems, modes of transport and demand segments
- 5- Network objects and required adjustments (Nodes, Links, Turns, Lists, Zones, Importing networks, Connectors, Checking the network)
- 6- OD Matrices
- 7- Assignment
- 8- Graphical Display and Network Analyses

### Who Should Attend

Individuals actively engaged in technical or policy-making resolution of urban transportation problems (urban and regional planners and modelers, traffic and transportation engineers, municipal engineers, consultants and other technically oriented personnel) are encouraged to participate in the course.

### Courses Language

The language of the course materials will be in English and the presentation in Arabic (with English translation).



The course will be taught by Prof. Dr. Mohamed Shahin.

Dr. Shahin, brings more than seventeen years of experience in the field of urban transportation planning and travel forecasting. As an associate professor at Alexandria University and previously in Hannover University, Prof. Dr. Shahin participated in teaching and preparing several courses in the fields of urban development, traffic engineering, transportation planning, pavement engineering, town repair, environment, surveying engineering, and climate change. In addition, he conducts research and supervises graduate students in Egypt and Germany.

Dr. Shahin gained international experience through working in Hannover University and different internal consultants. He was responsible for conducting traffic and transport planning studies for a wide range of road, infrastructure and urban planning projects undertaken in the Arab Gulf region and the Middle East.

Dr. Shahin participated several local and international conferences and seminars in Egypt and Germany in the fields of Urban Planning, Traffic Engineering, Transportation Planning, and Pavement Engineering.

Dr Shahin Registered in the List of PTV Vision  
Certified Trainers Under No. 90