

EMFAC-HK April 2012 Training - Basic Syllabus/Outline

BASIC TRAINING

Basic DAY 1. April 24th, 2012

Location: 1008- & 1012, 1/F Hong Kong Productivity Council, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon (Computer Room 1012, is available for those need extra help on the exercises)

AM- 9:30 -12:30

- **Welcome and Introductions -- Dr. Carol Wong, Senior Environmental Protection Officer, Environmental Protection Department**
- **Training Agenda – Sandeep Kishan, ERG**
- **EMFAC-HK V2.1 Model Overview and Operation -- Arney Srackangast, ERG,**
 - General model concepts: purpose, modes of calculation, intended use
 - Model History and Upgrade
 - From US EMFAC to EMFAC-HK
 - From EMFAC-HK V1.2 to EMFAC-HK V2.1
 - Using the Program
 - Program Installation

Lunch 12:30-2:00 PM

PM 2:00-5:00

- **EXERCISES (EMFAC-HK V2.1 examples)**
 - Exercise 1: Burden Mode Daily Output (2015, 2020, 2030)
 - Exercise 2: Burden Mode Hourly Output (2015, 2020, 2030)
 - Exercise 3: EMFAC Mode (2015)
 - Exercise 4: Tax-incentive / Future Technology Shift
 - Lecture followed by problem statement
 - Time for attendees to work on problem
 - Detailed discussion of problem and output

Basic DAY 2. April 25th, 2012

Location: 1008- & 1012, 1/F Hong Kong Productivity Council, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon (Computer Room 1012, is available for those need extra help on the exercises)

AM- 9:30 -12:30

- **EXERCISES (EMFAC-HK V2.1 examples)**
 - Exercise 5: VKT Adjustments (Population edits vs Direct Input)
 - Exercise 6: Trip Adjustments (Conformity Approach vs Direct Input)
 - Exercise 7: Speed Fraction Adjustments
 - Exercise 8: Relative Humidity Adjustments

 - Lecture followed by problem statement
 - Time for attendees to work on problem
 - Detailed discussion of problem and output

Lunch 12:30-2:00 PM

PM 2:00-5:00

- **General Guidance**
- **Local use of transportation data -- Dr. Carol Wong**

- **EXERCISE (Simple Project-Level Example)**
 - Exercise 9: "Mini" Road Link Example
 - Users setup, execute a simple application, and review and convert EMFAC-HK output to CALINE4-compatible input
 - Lecture followed by problem statement
 - Time for attendees to work on problem
 - Detailed discussion of problem and output

- **User Forum / Future Enhancements**