



**Ministry of Road Transport & Highways, New Delhi
Sponsored Training Programme
For Transport Department Personnel**

At Central Institute of Road Transport, Pune

‘Vehicular Emissions and its Control’

1.0 INTRODUCTION

The air pollution is viewed as the most serious problem in many cities in India. The transport sector is held responsible for the major contribution to the air pollution including particulate matter which is the most pollution causing agent. Therefore, controlling emissions from vehicle is an important component of air quality management.

Due to increased motorization in Indian cities, air quality is undergoing an increased deterioration. The knowledge and estimation of high contributions of vehicular emissions to pollutants, inventories in developing countries require the development of strategies and action plan, pollution reduction measurements, to achieve an effective improvement of the air quality.

Fuel characteristics and its emission norms are important components of vehicular emission control strategy in an urban air quality management plan. The other main components are vehicle technology and conditions of use. The effective management of vehicle emissions control is achieved by simultaneously addressing vehicle technology, fuel quality and the vehicle condition of use. Vehicular emissions are also due to the results of interaction among the type and properties of fuel use by vehicles with a given level of technology operating under certain service conditions like traffic.

The main objective of the programme is to make aware the control on vehicular pollution in Indian Scenario and globally to create awareness in emission norms, to understand the latest technology and emission reduction, to discuss on maintenance aspects of vehicle, provide guidance on the best practice for determining emission factors for real-world urban driving

2.0 OBJECTIVES

- To control vehicular pollution – Global and Indian Scenario
- To create an awareness in emission norms and related legislations in India
- To understand the latest technology in emission reduction
- To discuss on maintenance aspects of vehicle
- To familiarize with the design aspects of engine.

3.0 CONTENT

- Vehicular pollution - Global and Indian Scenario
- Indian and European Emission norms□
- Latest Technology in Emission Reduction
- Impact of Traffic Flow on Air Quality
- Environmental Regulations Related to Vehicular Emissions
- Vehicular Pollution Standards & Emissions Control
- Designing of Maintenance Policy for preventing vehicular pollution
- Provisions for CNG & LPG Engines, & Retrofitting
- Upgradation of emission norms
- Vehicle Technology Up gradation
- Maintenance/ Design aspects of Vehicle/ Engine
- Legal requirements, infrastructure and safety aspects of alternate fuel vehicles
- Emissions Analysis Techniques – Importance of Driving Cycles
- Emission Inventory
- Environmental regulations relating to vehicular emissions and recommend strategies for enhanced implementation
- Best practices for determining emission factors for real-world urban driving
- Driving Cycles for fuel consumption and emission estimation
- Visit to Testing Labs / Industry

4.0 PEDAGOGY

Exercises, case studies, group discussions, video films, study visits and computers will be used besides classroom lectures.

5.0 FOR WHOM

Officers from the Transport departments

6.0 DURATION

The duration of each programme will be one week (5 days – Monday to Friday).

- 06-10 December 2010

7.0 FEE

There is no course fee for these training programmes. Lodging and board facilities will be provided free to the participating officers. However, the sponsoring authorities will meet TA/ DA and other allowances as per the eligibility of the nominated officers.

8.0 VENUE

The programme is residential, involving group work and self study both in class room and outside class. Accommodation for the participant only will be provided in the hostels. Request for accommodation for participants' family should be intimated in advance, for which charges as per rules will have to be paid by the participant.

9.0 LAST DATE FOR RECEIPT OF NOMINATIONS

Nominations must reach the Coordinator- MDC, preferably at least one week prior to the commencement of the programme.

10.0 ENQUIRIES

For additional information/enquiry, please write to:

The Coordinator- Management Development Centre Central Institute of Road Transport, P.B. No. 1897, Bhosari, PUNE - 411 026	Telephone: 020- 27125177, 27125478, 27125493 Fax : 020 - 27125426 E-mail training@cirtindia.com Website : www.cirtindia.com
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