



ADMS-Roads

Course Outline (2 Days)

SUMMARY

The ADMS-Roads training course is specifically designed to teach dispersion modelling, applications of the software and how to carry out Air Quality studies. The course focuses on assessing air quality incorporating road networks and point sources of pollution. No prior knowledge is assumed.

The GIS package ArcGIS is used as a visualisation/manipulation tool. It is helpful, but not essential, to have some familiarity with a GIS package such as either ArcGIS or MapInfo.

The ADMS-Roads course lasts for two days and runs from 9:30 am to 4:30 pm.

For training at CERC's offices in Cambridge, refreshments and a buffet lunch will be provided by CERC. On-site training can be arranged at extra cost.

Day One

The first day gives an introduction to ADMS-Roads and the Atmospheric Boundary Layer.

Introduction to boundary layer meteorology and pollution dispersion

Introduction to the ADMS-Roads software

Setting up a project in ArcGIS

Creating a base file containing a map with OS co-ordinates

Setting up a modelling scenario in ADMS-Roads

Modelling a single Point source

Modelling a single Road source

Day Two

The second day extends the ideas introduced on day 1.

Choosing meteorology data – types of meteorological input

Calculating Short and Long term values

Modelling multiple sources and creating groups

Modelling a small Road Network – Current and Future scenarios

** Case studies (optional)*

Modelling chemistry effects

Particulate emissions from buses

Discussion of modelling studies, validation, input/output parameters, emission inventories, volume sources and future scenarios

Discussion of any other issues

Throughout the day tasks will be illustrated via a combination of demonstrations and worked examples.

CERC

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