



# ADMS-Urban – Introductory Training

## Course Outline

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### SUMMARY

The ADMS-Urban 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, point and gridded 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 either ArcGIS or MapInfo.

ADMS-Urban courses last for two days and are held at CERC's offices in Cambridge from 9:30 am to 4:30 pm. On-site training can be arranged at extra cost.

A buffet lunch will be provided by CERC.

### **Day One**

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

*Introduction to boundary layer meteorology and pollution dispersion*

*Introduction to the ADMS-Urban 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-Urban*

*Modelling a single Point source*

*Modelling a single Road source*

### **Day Two**

The second day extends the ideas introduced on day 1.

*Meteorology in ADMS-Urban – 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*

*Determining the major contributor to SO<sub>2</sub> concentrations*

*Particulate emissions from buses*

*Discussion of modelling studies, gridded sources, validation, background parameters, emission inventories and EMIT*

*Discussion of any other issues*

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

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# CERC

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