



# ADMS-Roads

## Course Outline (2 Days)

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### SUMMARY

The ADMS-Roads training course is suitable for those who are new to ADMS-Roads and dispersion modelling (and may or may not have experience using ADMS 4); no prior knowledge is assumed. The course is aimed at those who wish to assess air quality near a small road network, incorporating point sources of pollution.

A GIS package (ArcView) is used as a visualisation/manipulation tool. It is helpful, but not essential, to have some familiarity with a GIS package such as either ArcView or MapInfo. When booking a place on a course, users should specify whether they use ADMS-Roads in conjunction with Surfer, ArcView/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 ArcView*

*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 calculations*

*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*

*Brief 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.

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# CERC

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