



# ADMS 4

## Course Outline

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### SUMMARY

The ADMS training course is suitable for those who are new to ADMS and dispersion modelling, and assumes no prior knowledge. The course is aimed at those who wish to assess air quality in the vicinity of industrial sites. There is a strong practical emphasis throughout the course, which includes a mixture of demonstrations, worked examples and discussion.

Surfer is used as a visualisation/manipulation tool throughout the course.

ADMS 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 and the Atmospheric Boundary Layer.

*Introduction to boundary layer meteorology and pollution dispersion*

*Choosing meteorology data – types of meteorological input*

*Introduction to the ADMS software*

*Setting up a modelling scenario in ADMS*

*Modelling a single Point source*

*Calculating Short and Long term calculations*

*Modelling multiple sources and creating groups*

*Modelling buildings – influence of buildings on environmental flow*

### **Day Two**

The second day extends the ideas introduced on day 1. Several key model options are studied regarding their influence on predicted concentrations. A case study and model scenarios are discussed in relation to the model options.

*Hills* - How ADMS models terrain, when should you model terrain? Data Requirements.

*Deposition* - Determining dry and wet deposition rates e.g. to sensitive habitats, characterising pollutants.

*Chemistry* - Estimating what proportion of nitrogen oxides (NO<sub>x</sub>) is nitrogen dioxide (NO<sub>2</sub>).

*Case study* – Gas Terminal Development for IPPC

*ADMS 4 Mapper* – Introduction to the new ADMS 4 Mapper

*Summary* - Elements of an ADMS modelling study

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# CERC

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