



ADMS

Course Outline

SUMMARY

The ADMS 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 in the vicinity of industrial sites. No prior knowledge is assumed.

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

Meteorology in ADMS – meteorological input

Introduction to the ADMS software

Setting up a modelling scenario in ADMS

Modelling a single Point source

Calculating Short and Long term values

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_x) is nitrogen dioxide (NO₂).

Case study – Gas Terminal Development for IPPC

Summary of elements of an ADMS modelling study

CERC

Cambridge Environmental Research Consultants Ltd
3 Kings Parade, Cambridge, UK CB2 1SJ
Tel: 01223 357773, Fax : 01223 357492
E-mail: training@cerc.co.uk
Web site: <http://www.cerc.co.uk>