




National Association for Clean Air

Four-day AERMOD and CALPUFF Modeling Course

A Four-day Course: 16 - 19 July 2018

Mc Pharma Conference Centre, 62 Constantia Street, Mnandi, Centurion, Gauteng

Date:	16 - 19 July 2018, as per the attached course outline
Venue:	Mc Pharma Conference Centre , 62 Constantia Street (displayed as Bogosi Street on Google Maps) Mnandi, Centurion, Gauteng
Times:	Daily 09:00 – 17:00
Instructors:	 Lakes Environmental Software
Who should attend:	Current or aspirant air quality practitioners in the public and private sector, specifically persons responsible for performing or evaluating applications for Air Emissions Licences, based on dispersion modelling. Intending participants should have at the minimum knowledge of the basics of meteorology and air quality management.
Participation:	A maximum of 20 participants will be accepted. The organisers reserve the right to select applications on the basis of an applicant's prior experience and qualifications.
Certification:	A certificate of attendance and satisfactory completion will be issued by NACA. There will be no formal competency testing. At present there is no provision within the National Qualifications Framework or the existing Sector Education and Training Authorities (SETAs) for certification of environmental courses.
Registration:	Complete the form below and return to Bev Terry at bev@naca.org.za . Participants will be notified by email of acceptance on the course.
Closing date:	You are kindly requested to submit a completed application form to us by 1 July 2018 . NACA reserves the right to cancel the course should fewer than 10 participants register.
Costs:	<ul style="list-style-type: none">• First 10 registrants pay R 16 000.00 (Excl 14% VAT) per participant.• Thereafter R 18 000.00 (Excl 14% VAT) per participant.• Companies registering three or more attendees pay R 16 000.00 (Excl 14% VAT) per participant Fee includes participation in the course, a full set of printed notes and CD disk and certificate. Morning and afternoon tea, and daily lunches will be provided.
Payment:	Payment should be made to the National Association for Clean Air on receipt of invoice. Proof of Payment by EFT of official company purchase order must be submitted to Bev Terry before the commencement of the course. Submission of registration form and acceptance of participation constitutes a contract. Fees are non-refundable for no shows as well as cancellations within seven days, or less, of the start of the course.
Banking details:	National Association for Clean Air; ABSA Bank; Account Number: 1041470808; Branch Code: (Rosebank Central) 632005
Cancellation:	Cancellations after 2 July 2018 will be liable for the full fee.
Accommodation:	Bev Terry can recommend appropriate accommodation in the vicinity for out of town delegates needed help.
Enquiries:	For more information, please do not hesitate to contact Bev Terry, Course Coordinator, at 071 683 9770 or bev@naca.org.za
Course content:	Please see the attached file



TWO-DAY AERMOD TRAINING OUTLINE

DAY 1	DAY 2
<p>Morning</p> <ul style="list-style-type: none"> • Introduction • Physics of Air Dispersion (turbulence, meteorology, receptors, topography, plume rise, building downwash, deposition) • Hands-on Meteorological Data Processing • Refined Model Introduction. Overview and Data Input for AERMOD and BPIP models <p>Afternoon</p> <ul style="list-style-type: none"> • Coordinate Systems and Maps • Hands-on BPIP • Hands-on AERMOD • Terrain Processing • Hands-on AERMAP • Analyzing Results 	<p>Morning</p> <ul style="list-style-type: none"> • 1st Day Review • Atmospheric Physics – Planetary Boundary Layer Theory and Turbulence • Hands-On “Fresh Case” • Special Topics • Air Dispersion Modeling Challenges <p>Afternoon</p> <ul style="list-style-type: none"> • Multi-Chemical Runs • Wet and Dry Deposition • Discussions & Future Topics

TWO- DAY CALPUFF COURSE OUTLINE

DAY 1	DAY 2
<ul style="list-style-type: none"> • Introductions • Dispersion, stability class, an mixing height • Puff versus Plume models • Terrain and land use pre-processing (GEO.DAT) • Met station data pre- processing & WRF/MM5 met data • Hands-on CALMET • Wind Field QA - how to read/modify a wind field • Basic parameters for a CALPUFF run • CALPOST post-processing options • Hands-on CALPUFF and CALPOST modelling 	<ul style="list-style-type: none"> • Review of Day 1 • Turbulence, plume rise, and dispersion • Chemical transport and transformations • Complex terrain and coastal • Hands-on complex terrain • Hands-on coastal modeling • Odor modeling and other unique instances • Hands-on odor modeling • Hands-on CALPUFF run using your own site • Dealing with large projects – CALSUM post-processor • Hands-on CALSUM

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Surname:			
First Name:			Title:
SA ID number or Passport No.			
Company/Organisation:			
Designation:			
Person responsible for payment:			
Company VAT Number:			
Postal Address:			
Postal Code:			
Fax:		Tel:	
Cell:		E-mail	
Highest educational qualification: (Please tick the appropriate box)	Matric	BSc	BSc Hons
	MSc	Other: (Specify)	
Current job description			

Previous years and level of experience in air quality management or atmospheric sciences?

I wish to attend the Four-day AERMOD and CALPUFF Modeling Course:

- First 10 registrants pay R 16 000.00 (Excl 14% VAT) per participant.
- Thereafter R 18 000.00 (Excl 14% VAT) per participant.
- Companies registering three or more attendees pay R 16 000.00 (Excl 14% VAT) per participant

Name of person or institution responsible for paying the account:.....

I acknowledge that in submitting the above registration that I / (company named above) hold ourselves liable for the full fee for the course registration, if not cancelled before the specified **date (2 July 2018)**.

Please issue an official invoice to **(Name of person and/or institution responsible for paying the account)**:

Signature:	Name & Surname(Block letters)
Date:	Designation:

An invoice will be issued by the National Association for Clean Air on request.

Please return to: Bev Terry, Course Coordinator, NACA,

P O Box 8370, Halfway House, 1685 or email/FAX to 0865137490

E-mail: bev@naca.org.za Cell: 071 683 9770.