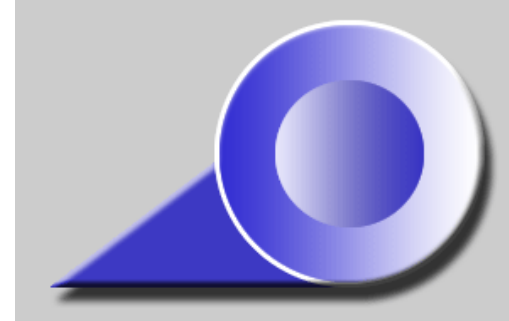


# Pavement Design and Analysis Training Course



Modelling and Analysis Systems (MAS) presents a two-day training course on pavement design and analysis. The course focuses on practical implementation of pavement design and analysis concepts. Key elements of the course include:

- Overview of the mechanistic design and analysis method
- Evaluation of pavement structural capacity using the South African Mechanistic Design Method
- Cross-checking design capacity using AASHTO and catalogue design methods
- Analysis of FWD data, including backcalculation
- Basic analysis and documentation of Dynamic Cone Penetrometer (DCP) data
- Holistic pavement design; deriving and documenting design assumptions
- Pavement condition summary

During the course, short lectures on the theory of the concepts are given, followed by an assignment relevant to the topic under discussion. The assignments use the Rubicon Toolbox software, and are worked on both individually and in groups. More than half the course time is spent working on the assignments. Thus, hands-on experience is gained in implementation of the concepts discussed. A working knowledge of the main tools in the Rubicon Toolbox software is also obtained. The class sizes are limited to facilitate discussion and individual attention.

The course is presented by MAS staff, Dr Fenella Long and/or Dr Arno Hefer, who have extensive experience in Pavement Design and Analysis.

## ***Who Should Attend***

This course is not an introductory course in pavement engineering, although key concepts are briefly reviewed. The course is therefore best suited to participants who have some experience in pavement design and analysis. It is not necessary to have experience in the use of Rubicon Toolbox to participate in the course.

The course is registered with SAICE (SAICEtr09/00451/12) and is valid for two CPD credits.

## ***Dates and Locations***

- 22 & 23 February 2011, Pretoria
- 14 & 15 July 2011, Cape Town
- 27 & 28 October 2011, KZN

A minimum number of attendees is required for the course to be held. Should you be interested in attending a course at other locations, or holding an in-house course, please let us know.

## ***Cost***

The cost per person is R 4 250 (excluding VAT) and includes course notes, lunch and refreshments. Maintenance paying Rubicon Toolbox users will receive a 15% discount. Attendees are required to bring their own laptop computers, but are not required to have Rubicon Toolbox installed on the computer.

Should you be interested in attending a course, please contact MAS at [info@modsys1.com](mailto:info@modsys1.com), 012 734 0062 or 082 331 9479.

## ***Feedback from Attendees on Previous Courses***

*"Review of theoretical concepts. Combination of analysis and presentation well-balanced."*

*"Good balance and explanation between theoretical issues and practical applications."*

*"Addressed ways to communicate with client."*

*"Opportunity to gain hands-on experience with software through assignments."*

*"No long start-up pains, practical and hands-on, on the cutting edge of technology."*