Rubicon Toolbox Training Course
Day 1: Pavement Design

Rubicon Solutions presents a one-day training course on Pavement Design. The course focuses on the theory of pavement design, and practical implementation of pavement design concepts. Key elements of the course include:

- Fundamentals of pavement materials and design
- Empirical Methods: AASHTO Design Method
- Knowledge-Based Methods: Pavement Number Method
- Overview of the Mechanistic-Empirical Pavement Design Method
- Calculation of stresses and strains
- Evaluation of pavement structural capacity using the South African Mechanistic-Empirical Design Method
- Cross-checking design capacity using AASHTO, Pavement Number and catalogue design methods

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 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 Dr Fenella Johns and/or Dr Arno Hefer, who have extensive experience in Pavement Design.

Who Should Attend

This course is not an introductory course in pavement engineering, although key concepts are presented. The course is suited to participants who have had some exposure to 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 and is valid for one CPD credit. This course runs in conjunction with the Pavement Condition Analysis and Rehabilitation Design Course.

Dates and Locations

- 8 March 2017, Kwazulu-Natal
- 20 June 2017, Gauteng
- 12 September 2017, Cape Town

A minimum number of attendees are 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 contact us.

Cost

The cost for this one-day course is R 3 500 (excluding VAT) per person and includes course notes, lunch and refreshments. Participants attending the Pavement Condition Analysis and Pavement Design Course on the two days after this course will receive a 5% discount. Maintenance or subscription paying Rubicon Toolbox users receive an additional 15% discount. Attendees are required to bring their own laptop computers, but are not required to have Rubicon Toolbox installed on the computer.

For more information, or to register, please contact us at admin@rubsol.co.za or 071 448 6383.

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.”