



**Presents Materials Testers Course  
SANS 4001 – BT1 -5 & TG 1**

**Module 5  
BITUMEN BINDER TESTING**

**Presenter:**  
**Barry Pearce**  
*(SANAS Accredited Technical Assessor)*

**Mon 2<sup>nd</sup> – Friday 6<sup>th</sup> November 2020  
In Durban (KZN)**

**An intensive 5-day course  
08:30 to 16:30 each day**

**Course Objectives**

- To train candidates in the correct binder test methods as per industry standards.
- Execute testing procedures pertaining to Pen, cutback, emulsion & modified binder materials to the latest SANS 4001 specifications

**Course Structure**

*The course has been structured into the following 7 modules presented over 24 month period:*

- Module 1 – Sampling of Materials
- Module 2 - Aggregates testing
- Module 3 - Soils and Natural Gravel testing
- Module 4 – Concrete testing (by TCI)
- Module 5 - Bituminous Binder testing
- Module 6 – Asphalt testing
- Module 7 – Nuclear gauge testing

**Who should attend?**

- All persons involved in the laboratory testing of bituminous binders
- Those wishing to refresh their knowledge of the correct testing procedures
- Those who wish to get a better understanding of the changes incorporated into the SANS 4001 series.

**Cost (incl VAT)**

**R 10 000 - for Sabita members  
R 11 300 - for NON Members**

***NB - Registration will be limited and, will be accepted on a first received basis and only confirmed once payment of the course fees has been received.***

## Course Programme

### Day 1

- Registration, introduction, ice breaker;
- Introduction to bituminous binders & HSE

### Day 2

- Multiple choice test,
- Theory on 2nd section on Base binders test methods,
- Afternoon practical session

### Day 3

- Multiple choice test,
- Theory on 3<sup>rd</sup> section on emulsion & cutback test methods,
- Afternoon practical session

### Day 4

- Multiple choice test,
- Theory on 4<sup>th</sup> section of modified binder test methods,
- Afternoon practical session

### Day 5

- Multiple choice test,
- Wrapping up binder methods, course evaluation

### The test to be covered is as follows:

- Penetration grade bitumen
  - Penetration test, Ring and ball/softening point, Dynamic viscosity, Spot test, Rolling thin film oven test
- Cutback bitumen
  - Distillation test, Kinematic Viscosity, Flash point
- Bitumen emulsions
  - Binder content, Viscosity, Coagulation value, Sedimentation test, Residue test on sieving, Particle charge
- Modified Binder tests
  - As per TG1 applicable to Elastomers & Plastomers

All course notes, a light lunch and teas will be provided. To register, download a registration form at [www.asphaltacademy.co.za](http://www.asphaltacademy.co.za) For more details or any other enquiry call us on 021 5312718.

### *Comments received from previous attendees*

*“Course very beneficial to my working environment”*

*“It was an excellent course!”*

*“The facilitator really knows his work and helped me to understand things better”*

*“I would like to attend all your courses”*

### *Course Dates of other MTC modules*

For the schedule of the MTC modules, please check the AsAc website under Calendar of Events:

[www.asphaltacademy.co.za](http://www.asphaltacademy.co.za)