

CPD-accredited lecture:

Geosynthetics in Road Construction – Subsoil Drainage

Geotextiles and perforated pipes have been used in subsoil drains for roads in South Africa since 1972. Subsoil drains are often specified and installed based on information from previous applications. This talk presents quality information, based on both theory and practical experience on designing, detailing, measuring and installing aggregate and composite subsoil drains. This illustrated lecture is intended as a follow-on lecture to the initial “*Filtration and Drainage*” lecture.

This **SAICE** CPD-accredited lecture is presented free of charge to professionals in the engineering fields.

CPD Credits 0.1 (one hour) apply for ECSA registered persons.

An attendance certificate will be issued to each delegate.

This can be used to claim CPD points and to motivate corporate Skills Development Levy (SDL) Refund Claims.

PROGRAMME

± 1 hour (including discussion)

1. **Which grades to use where** - The difference between geotextile grades and perforated pipes according to COLTO 2100 and how to select a grade by application. COLTO tests are explained including performance testing.
2. **Types of systems and sizes** – Geotextile, stone drain, and geocomposite alternatives.
3. **Design example** – A step-by-step process to design a subsoil road edge drain.
4. **Cost comparison** - Aggregate drains versus geocomposite drains.
5. **Detailing and scheduling** – Generic descriptions for items not specified in COLTO.
6. **Installation** – A general guide for installing aggregate and geocomposite drains.
7. **Discussion**

The lecture(s) can be presented at your premises or Kaytech's in Johannesburg (Isandovale), Cape Town (Stikland), East London, Port Elizabeth, & Durban (Pinetown).

Course Presenter

Julian Maastrecht

BTech degree (Civ Eng): Cape Technicon

Julian works for the Kaymac Group (founded 1945) and is based at Kaytech's East London branch in South Africa. Here, he serves as Branch Manager. In 2016, he will have been involved in geotechnical engineering and geosynthetics for 18 years. He also has 5 years contracting experience in building and civil construction.

His working experience in the civil engineering consulting field includes three years with Van Niekerk Klein and Edwards and three years with BS Bergman Consulting Engineers in civil services design. He joined Kaytech in August 1998 where he worked in the technical marketing department. In 2007, he opened a regional branch in the Eastern Cape and assists nationally on a technical level.



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