

CPD-accredited lecture:

# Geosynthetics in Structural Drainage

Geosynthetics have been used in subsoil drains in South Africa since 1972. This illustrated lecture presents theoretical information and practical applications of the various geosynthetic systems available.

The lecture content is useful for Structural- and Civil Engineers as well as technicians. Architects and Quantity Surveyors will also benefit. **This SAICE CPD-accredited lecture is presented free of charge to professionals in the engineering fields.**

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**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.**

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## **PROGRAMME**

± 1 hour (including discussion)

1. **What are Geotextiles, Geospacers, Perforated Pipes, and Geocomposites?** - Different types available locally.
2. **Practical design worked example** - Designing a subsoil drain behind a retaining wall and under a floor.
3. **Subsoil drainage behind retaining walls** - Products and applications with advantages & disadvantages of each.
4. **Subsoil drainage under floors** - Products and applications with advantages & disadvantages of each.
5. **Lightweight geocomposites drainage systems to roof gardens and planters** - Practical lightweight solution that offers added waterproofing protection.
6. **Septic tank and storm water attenuation systems** - A new approach using HDPE tunnel formers instead of stone leachfields & soak pits.
7. **Permeable Paving**
8. **Discussion**

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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.



[julianm@kaytech.co.za](mailto:julianm@kaytech.co.za)

+27 (0)83 252 6231

