

SAICE Water Engineering Division
Urban Stormwater Design and Management



3 CPD POINTS

SAICEEL25/03940/28

SAICE is an ECSA Approved CPD Service Provider SP_028/2029

3-Day Virtual Course



Presented By: Prof Akpofure Taigbenu

What is the challenge?

The course aim is to provide participants with the knowledge base and competencies to plan, design, operate and manage urban stormwater systems that can adequately accommodate the quantity of runoff and as well as improve its quality downstream so that the systems serve as an adaptive measure to a changing climate, and hence produce more resilient urban environment.

Who should attend?

Engineers, Technologists and Project Managers in Municipalities, Local Government Councils, Public Service and Private Corporate Establishments who are involved with infrastructure

Course Outline?

3-Day Virtual Course (08H00 – 16H30)

The course delivery uses a combination of lectures and hands-on modelling with EPA SWMM applied to stormwater drainage systems with and without LIDs (Low impact developments).

The course content is:

- *Introduction & Overview*
- *Fundamentals of Open Channel Flow*
- *Runoff Discharge Estimation Methods*
- *Planning and Design of Drainage systems*
- *Gutter flow and Inlet Design*
- *Urban Drainage Examples and Solutions*
- *Culvert Design*
- *Detention Pond Design*
- *Principles of sustainable stormwater management*
- *SWMM and its Applications on stormwater drainage systems with and without LIDs*
- *GSI for Climate Change Resilience*

Requirements?

A Laptop with EPA SWMM downloaded from

<https://www.epa.gov/water-research/storm-water-management-model-swmm>

Excellent internet connection

Attainment of at least a 50% pass in the 10 multiple choice questions for a participant to be issued with the CPD certificate.

Register?

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Cost: SAICE Members R 7800,00 (incl VAT) Non Members R 8700,00 (incl VAT)

In-house courses can be arranged on request but are subject to a minimum number of delegates.