

The Water Institute of Southern Africa Presents



Advanced Water Treatment Control: Coagulation & Flocculation

2 CPD Points – WISA/ ECSA/ SACNASP

- 💧 2 Day Course aimed at Process Controllers, Superintendents, Plant Managers, Plant Technicians, and Water Sector Officials.
- 💧 An Assessment will be conducted upon conclusion of the course to ensure quality and a CPD certificate will be awarded to successful learners.
- 💧 Course Presenter: Dewald van Staden – Pr PC Water, Pr. Nat.Sci, FWISA, Water & Wastewater Process Control Specialist



Dates:

9 & 10 April 2019 – Cape Town

14 & 15 May 2019 – Johannesburg

11 & 12 June 2019 – Durban

Please note that the venues will be confirmed closer to the date

Costs:

WISA Member – R5450 (incl. VAT)

Professional Process Controller (Pr PC Water) – R4950 (incl. VAT)

Non Member – R6450 (incl. VAT)

To register please click [HERE](#) or for any queries please contact Anita Pillay at training@wisa.org.za

Course Overview

Many of the Process Controllers who are involved with the provision of potable water are quite proficient in their understanding of the processes being applied during treatment, but need some assistance when it comes to the calculations required to optimise these processes. This course focuses on those calculations as they apply to the Coagulation and Flocculation processes. The course is intended to be an interactive training event where the calculations will be unpacked, practiced and then interpreted in practical on-site situations.

Who should attend?

- 💧 Process Controllers
- 💧 Superintendents
- 💧 Plant Technicians
- 💧 Plant Managers
- 💧 Water sector professionals
- 💧 Officials involved in the treatment of water treatment

Course Outline

Day 1:

- 💧 Overview of Water Treatment - Recapping baseline knowledge
- 💧 Jar Testing - Test Procedure & Calculating Feed Rate
- 💧 Chemical Dosage Calculations
- 💧 Pump Settings - Establishing Calibration Curves
- 💧 Floc Formation – G-value Calculations

Day 2:

- 💧 Coagulation & Flocculation Troubleshooting
- 💧 Practical Exercises & Open Book Test

There will be an open book examination on Day 2 of the course as well as an assignment to be handed in after the course in order for learners to be awarded respective CPD points.

Course Outcomes

On completion of the course, participants should be able to:

- 💧 Perform calculations related to the Coagulation and Flocculation Processes
- 💧 Interpret the results from those calculations
- 💧 Use the results from those calculations to perform troubleshooting on the Coagulation & Flocculation processes

Course Presenter

Core presenter: Dewald van Staden – Pr PC Water, Pr. Nat.Sci, FWISA

Dewald van Staden has been involved in the field of water and wastewater treatment for the last 20 years. He obtained his B.Tech degree in Water Care from the Tshwane University of Technology, is registered with the South African Council for Natural Scientific Professions (SACNASP) as a Professional Natural Scientist and with the Water Institute of Southern Africa (WISA) as a Professional Process Controller.

He currently holds a senior position at Enviro Metsi (Pty) Ltd where his involvement in water and wastewater treatment focuses on management, operation and maintenance of treatment works. The extent of these projects range from "management only"- services to contracts where they are responsible for the entire treatment process and all the associated functions

As these projects are typically governed by the criteria set by the Department of Water and Sanitation in the Blue drop and Green Drop initiatives, he also got involved in the management of those criteria. This later led him to qualify as a Blue Drop / Green Drop Inspector where he acted as a consultant to the Department during the assessments

Course Registration

Please complete the registration by following the link below and return to training@wisa.org.za

[Click here to register](#)

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In-house Training

Should you require in-house training, please note that WISA would be able to cater for your needs. In-house training is typically presented on the clients' site, which is more convenient and has various cost benefits. For more information or to request in-house training please contact Anita Pillay on training@wisa.org.za

Please contact Anita Pillay at training@wisa.org.za or 086 111 9472 should you have any queries.