



BUSINESS ARCHITECTS

SMART WATER TECHNOLOGIES

**2 CPD POINTS ACCREDITED
SAAMA2018341 / ECSA**

FOR BOOKING

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A New Era in Monitoring Water Quality

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Overview

Water-based applications are expanding at an ever-increasing rate and complexity. Starting from simple surface water treatment through to drinking water storage and distribution and complex wastewater treatment techniques, there is an enormous blend of energy input, human intervention and applied technologies. This combination of activities requires demanding monitoring regimes and intelligent application of mature technologies in order to achieve the desired results. This is where Smart Water Technologies come into play.

This Smart Water Technologies training course will present the different areas/sectors in which Smart Water Technologies (SWT's) are applied and examine in detail their specific characteristics and potential. Particular reference will be made to the agricultural, and the utilities as well as to the industrial, water treatment and healthcare sectors. It will at the same time address new emerging technologies and how they can be applied in the context of sustainability and cost-effectiveness.

Objectives

By the end of this training course, participants will be able to:

- ❖ Understand the whole spectrum of water-based applications
- ❖ Have good Knowledge of the basic principles of water treatment
- ❖ Apply water quality monitoring concepts in different sectors
- ❖ Develop their ability to assess the effectiveness of SWT's
- ❖ Understand the complexity of water storage and distribution networks



Speaker Profile

Johannes S. Meyer

With over 51 years of experience in the engineering sector, Johannes S. Meyer has primarily been involved in Civil and Structural Engineering, with additional experience in Mechanical and Electrical Engineering. His expertise spans across various areas including Design, Project Supervision, Contract Management, Project Management, Quality Assurance, Consultancy, and Senior Resident Engineering. He has demonstrated a consistent track record in Lean Team Leadership and successful Project execution.

Johannes possesses extensive experience and skills in several domains such as Water and Wastewater treatment plants, Renewable Energy, Mega Building, Water Quality, Reverse Osmosis, Sludge Treatment, Groundwater & Stormwater techniques, Rural and Urban Roads, Municipal services, and Bridge design, among others. His passion lies in crafting functional and innovative solutions and processes to ensure seamless flow and progression within his working environment.

About CSK BA

We provide high-quality business conferences, seminars and skills-building workshops that adds value in terms of knowledge and skill. The aim is to provide extremely good value for the time and money clients have invested. Our events are thoroughly researched, practical and case study-related, ensuring clients are empowered with the latest information as well as providing superb networking opportunities with leading business colleagues and executives.

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Organisational Impact

- ❖ Understanding the importance of applying SWT's in water applications
- ❖ Improving the efficiencies of water-related processes
- ❖ Developing sustainable water management policies
- ❖ Optimizing the usage of its water resources
- ❖ Setting up a proactive monitoring programme to reduce water-related risks

Personal Impact

- ❖ A broad understanding of water composition and its consequences
- ❖ Develop awareness of global water scarcity
- ❖ Devise and apply water-saving techniques
- ❖ Realize the benefits from applying smart technology to water management
- ❖ Develop a proactive culture in relation to Health, Safety and the Environment
- ❖ An up-to-date information on the latest smart water technologies

Who Should Attend

- ❖ Engineers and scientists from the water industry sector
- ❖ Plant operators of water treatment facilities
- ❖ Regulators and Water Authorities
- ❖ Design Engineers working in the construction industry
- ❖ Leakage detection engineers
- ❖ Agricultural engineers



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Introduction to Water Resources

- ❖ Water as a valuable global resource
- ❖ Global water reserves
- ❖ Water resource challenges in the 21st century
- ❖ The utilities and energy sectors
- ❖ Considerations in the aftermath of the pandemic

Water Quality

- ❖ Water composition - Minerals and organics
- ❖ Basic physicochemical definitions
- ❖ The microbiological aspect of water
- ❖ How water quality affects the different water applications
- ❖ The need for water treatment
- ❖ Water quality management – Regulatory compliance

The Role of Smart Water Technologies – SWT's

- ❖ Smart Water Management – Definition and applications
- ❖ The Utilities sector and the challenges
- ❖ The role of SWT's in monitoring water quality and in decision making
- ❖ The Non-Revenue-Water and leakage detection
- ❖ Improving water management efficiencies - Smart water metering technologies

The Water Treatment Challenge

- ❖ Bioelectrochemical systems for water treatment
- ❖ Contemporary nitrogen removal processes
- ❖ Advanced phosphorus removal and recovery technologies
- ❖ Suspended Ion exchange for drinking water production
- ❖ SCADA platforms in water treatment

The Future of Smart Water Technologies

- ❖ Examples of monitoring tools arising from the pandemic
- ❖ The Internet of Things (IoT)
- ❖ Flow cytometry: Principle, applications and recent advances
- ❖ New generation softeners
- ❖ Novel UV applications



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REGISTRATION FORM

There is so much to see and hear and so many people to meet that you can not cover everything alone. Take advantage of unbeatable

Please complete and return this form to:

ATT Admin

admin@cskba.co.za/admin@cskba.com

Tick Preference

R 9,999 per delegate Excl. VAT – F2F

R 7,999 per delegate Excl. VAT - Online

Smart Water Technologies training

18th – 19th of July 19th – 20th of September 2024 , Johannesburg

27th to 28th of June 29th to 30th of August 2024 – Durban

26th to 26th of September 31st Oct to 1st of Nov 2024 – Durban

On-line

Face to Face

First Name:		Surname:	
Company / Organisation:		Designation:	
Phone:		Fax:	
EmailAddress:		CompanyVAT No.:	
PostalAddress:		PostalCode:	
Person dealing with Accounts:		Country:	
EmailAddress:			
Signature:		Date:	

By completing & signing this form, the authorising signatory accepts the terms and conditions as stated on the registration form

Delegate Attendance Information:

NOTE: Please provide information as you wish it to appear on your name badge and on the official participant database.

Title	Delegate Name & Surname	Position	Contact Number	Email

SwiftCode	FIRNZAJJ	Name of Bank	First National Bank (SA)
Branch name	Randburg Main	Branch Code	254005
Account name	CSK Business Architects (Pty) Ltd	Account number	62759500187
Reference	Insert invoice number or company name on the deposit slip		

Registration fees above include the following entitlements: entrance to sessions, registration pack, daily lunch and refreshment breaks.

Terms & conditions

*Payments Terms: on the return of a registration form, full payment is required within 7 working days. Payment must be received prior to the event date. CSK Business Architects reserves the right to refuse entry into the conference should full payment not have been received prior to the event date. Cancellations will be charged under the terms set out below.

*Cancellations, no show and substitutions: cancellations received in writing more than 21 days prior to the event being held carry a 50% cancellation fee. Should cancellations be received between 21 days and the date of the event, full conference fees will be payable and non-refundable. Non-payment or non-attendance does not constitute cancellation. No shows will be charged the full registration fee. Cash back alternatives will not be offered, however, substitutions at no extra charge are welcome.

*Alterations to the advertised package: CSK Business Architects reserves the right to alter this program without notice or penalty and in such situations no refunds or part refunds or alternative offers will be made. Should CSK Business Architects permanently cancel an event, for any reasons whatsoever, the client shall be provided with a credit of the equivalent amount paid towards the cancelled event. In the event of a postponed or cancelled event CSK Business Architects will not be responsible for covering air fares, accommodation and transportation.

*Interest will be charged on all overdue amounts at a rate of three percent (3%) per month after thirty days.

*In the event of CSK Business Architects instructing an attorney to enforce compliance with the terms here of, the above mentioned company on the registration form agrees to pay such attorneys on an attorney and client scale and will be liable to pay the costs of letters of demand or any other cost involving cancellations or no shows to the event.

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