

Getting Acquainted with Water Resource Management

A two-day course to help you understand the **competing demands for water** and how to **allocate water on an equitable basis** for various uses and demands.



Attend this course and learn about:

- Water uses and constraints
- Yields and water balances
- Governing legislation
- Other issues to consider including climate change

Benefits include:

- Participation in an interactive workshop
- Various practical activities to equip attendees to handle projects effectively when back in the workplace
- A comprehensive document that will serve as a reference manual
- CPD credits (ECSA) - *can be revalidated if required*

Presenter:

Stephen Mallory Pr Eng BSc(Eng) Civil, MSc(Eng)

COURSE DATES & VENUES

In-house face-to-face courses are available upon request.

Please contact Lizelle du Preez for more information on upcoming courses: Lizelle@saicepdp.org / 011 476 4100

TIMES: 08:00 for 08:30 to 16:30

REGISTRATION

To register, visit www.candidateacademy.co.za
OR email Academy@saicepdp.org

WHO SHOULD ATTEND

The course helps graduates and mid-level professionals apply their theoretical training in practice. It is therefore recommended for those involved in:

- Water resource planning
- River basin management
- Water policy design and implementation

COURSE CONTENT

INTRODUCTION

- Water resources planning
- Legal frameworks
 - The National Water Act
 - The National Water Resources Strategy
 - Other relevant policy

WHO IS RESPONSIBLE FOR MANAGING WATER RESOURCES?

- Section 3 of NWA
- Catchment management agencies

HOW MUCH WATER DOES SOUTH AFRICA HAVE?

- Terminology
- Types of flow
- Yields
 - Sources
 - Estimating
- Sources of water information

HOW MUCH WATER DO WE NEED?

- Categories of water use
 - Domestic
 - Irrigation
 - Industry
 - Power generation
 - Recreational use
- International and ecological requirements
- The ecological reserve

INTRODUCTION TO WATER RESOURCE MODELLING

- Terminology
- Practical sessions
- Water resource modelling
 - Models and databases
 - Modelling platform
 - Theory of modelling

TOPICAL ISSUES

- Drought forecasting
 - Planning model
 - WReMP
- Climate change
 - Methodology
 - Temperature
 - Comparisons
 - Implications

ABOUT YOUR FACILITATOR

Stephen Mallory is the founding member of IWR Water Resources and has more than 30 years' experience in the water engineering field, most of which is in the field of water resource planning and modelling. Key projects over the last 10 years include the Mbombela Reconciliation Strategy, Operating rules for Stand Alone Dams and Classification of the Water Resources of the Inkomati Water Management Area in the Eastern and Western Cape. His main input into these studies was his water resources modelling skills which improved water availability estimates and provided practical operating rules for over 80 dams.

In-house courses are available.

Contact Lizéle at lizelle@saicepdp.org for further information.

WHAT TO BRING TO THE COURSE

- Pencil and eraser
- Scale ruler
- Scientific calculator
- Laptop with Excel



The Candidate Academy's philosophy is to support candidates on their road to registration with ECSA, by helping them through the transition from theoretical training to the 'how' of engineering projects and processes. The Academy offers practical, hands-on training relevant to experiences in the workplace.

**candidate
academy**
the road to registration – tower above the rest