

SAIAE - Small dam design principles course

15-16 August 2018 - KZN

Course description

The practical understanding of the principles in small dam designs. Irrespective of how a dam is classified, the conditions and requirements as set according to its size and threat potential must be met.

Main topics

- Classification of dams
- Topographical survey
- Streamflow hydrology
- Flood hydrology
- Geotechnical
- Earth embankment design
- Outlet works
- Spillway
- Water use licence

What will you learn?

A sound knowledge of relevant dam design principles and methods to ensure safety, economy and durability.

Target group

The short course is aimed at engineers and technicians from consulting firms, government departments, associations, local authorities, and private entrepreneurs.

Course cost: R4500.00 per person – SAIAE member / R5000.00 – Non-Member

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DAY 1		
Time	Items	Presenters
07h30 to 08h15	Registration and Welcome	
08h15 to 09h00	Classification of dams Reasons, principles, consequences	Deon van der Merwe
09h00 to 10h00	Topographical survey Requirements, accuracy, deliverables	Deon van der Merwe
10h00 to 10h30	Tea/coffee and networking	
10h30 to 12h30	Streamflow hydrology Yield, EWR	Adriaan Louw
12h30 to 13h30	LUNCH	
13h30 to 14h30	Flood hydrology Rational, SDF, Statistical	Deon van der Merwe
14h30 to 15h15	Geotechnical Required material, required tests, foundation and material investigations	Deon van der Merwe
15h15 to 15h45	Tea/coffee and networking	
15h45 to 16h30	Closure/Summary of Day 1	
DAY 2		
Time	Items	Presenters
08h15 to 10h00	Earth embankment design Slope design: Empirical through soil classification Bishop or Morgenstern-Price methods Crest and core design	Deon van der Merwe
10h00 to 10h30	Tea/coffee and networking	
10h30 to 11h30	Outlet works Hydraulics, Practical considerations	Deon van der Merwe
11h30 to 12h30	Spillway Type of spillways, Hydraulics for broad crested, by-wash, ogee and drop inlet	Deon van der Merwe
12h35 to 13h45	LUNCH	
13h30 to 14h30	Water Use Licence Requirements and lessons learned	Deon van der Merwe
14h30 to 15h15	Deliverables Design report, Design drawings, Engineers Estimate, Tender documents	Deon van der Merwe
15h15 to 15h45	Tea/coffee and networking	
15h4 to 16h30	Closure/Summary of Day 2	

Registration form: SAIAE - Small dam design principles short course

15-16 August 2018 - KZN

Person who will be attending:			
Name:			
Company:			
Registration fees:	Small dam design principles course, KZN, 15-16 August 2018 SAIAE member		R 4500.00
	Small dam design principles course, KZN, 15-16 August 2018 Non SAIAE member		R 5000.00
Dietary requirements:		Total amount:	R
Person / Company responsible for payment:			
Name:			
Postal address:			
Email address:			
Contact person:		Tel / Cell no:	

Conditions:

1. Please complete the registration form and email to boeboe@saili.co.za by 31 May 2018. Places are limited and will be awarded on a first come – first serve basis.
2. Payment of registration fees is required prior to the event, no later than 15 July 2018.
3. Upon receipt of the registration form, an invoice with a reference number will be issued
4. Payments can be made directly into the SAIAE bank account, using the reference on the invoice:
Account name: SAIAE **Bank:** ABSA
Branch: Silvertown **Branch code:** 334445 **Account no:** 070720329
5. Please email the proof of payment to boeboe@saili.co.za , where after a confirmation of receipt will be sent
6. Attendees are responsible for their own travel and accommodation arrangements and costs prior or following the short course.
7. SAIAE reserves the right to change the dates or cancel the course and will not be held responsible for any losses incurred by attendees thereby.

I would like to attend the event on 15-16 August 2018 and accept the conditions listed above. By signing this registration form, I indemnify SAIAE, its employees, representatives and subcontractors against all damages, losses and/or costs arising out of or about illness, injuries, death and/or damage to and/or loss of property of any and all persons in any way sustained in connection with the short course.

Initials & surname
Signature
Date