



SABI

SOUTH AFRICAN IRRIGATION INSTITUTE
SUID-AFRIKAANSE BESPROEINGSINSTITUUT

**BESPROEINGSOPLEIDING
IRRIGATION TRAINING 2012**

INLEIDING

As erkende verteenwoordigende organisasie van die besproeiingsbedryf in Suid-Afrika, geassosieer met die optimale en effektiewe gebruik van besproeiingswater, organiseer en fasiliteer SABI jaarliks 'n aantal opleidingsgeleenthede.

Die opleidingsprogramme is gemik op beide die besproeiingsbedryf sowel as die besproeiingsplaas. 'n Wye reeks kursusse is oor die laaste 10 jaar ontwikkel, wat geskik is vir nuwe en ervare plaaswerkers, besproeiingsbestuurders, verkoopsassistenten en besproeiingsontwerpers en regoor die land aangebied word in samewerking met die privaatsektor, universiteite, navorsingsinstansies en landbou-kolleges. Die kursusse is almal geskoei op ge-ykte teoretiese beginsels, maar word op 'n praktiese wyse aangebied met die hulp van die SABI maatskappy-en goedgekeurde ontwerperslede.

Waar daar geskikte eenheidstandaarde bestaan, is SABI se kursusse ge-akkrediteer by die AgriSETA. Dit beteken dat die leerder daarvan verseker is dat die kursusinhoud en aanbieding voldoen aan die kwaliteitsvereiste gestel deur SAQA. Verder dra die aantal krediete wat daaraan toegeken is volgens die ooreenstemmende eenheidstandaard, by tot die totale aantal krediete wat vereis word om 'n erkende kwalifikasie te bereik. Die kursusse wat SABI aanbied vorm deel uit van die nasionale sertifikaat of nasionale diploma in plantproduksie soos deur SAQA erken. Indien 'n leerder dus vir een van hierdie kwalifikasies geregistreer is, sal die voltooiing van 'n SABI kursus bydrae tot die totale aantal krediete vereis om die kwalifikasie te voltooi.

Hierdie dokument bevat 'n oorsig aangaande die reeks kursusse wat in 2012 aangebied gaan word.

Faks asb die toepaslike versoekvorm op bladsy 3 of 5 aan die SABI kantoor (021 850 8220) indien u meer inligting vereis. U is ook welkom om SABI se tegniese uitvoerende beampte, Isobel van der Stoep, te skakel by 082 331 4987, of isobel@sabi.co.za.

INTRODUCTION

As the recognized representative organization of the irrigation industry in South Africa associated with the optimal and efficient use of irrigation water, SABI organizes and facilitates a number of training interventions every year.

The training programmes are aimed at both the irrigation industry as well as the irrigation farm. A wide range of courses have been developed over the last 10 years, for both new and experienced farm workers, irrigation managers, irrigation sales assistants and irrigation designers, and presented across the country in cooperation with the private sector, universities, research organizations and agricultural colleges. The courses are all built on a sound theoretical foundation but presented in a practical manner with the assistance of SABI company and approved designer members.

Where suitable unit standards exist, SABI has aligned its courses with these requirements of the AgriSETA. This means that a learner is assured that the course content and presentation meets with the quality requirements of SAQA. Furthermore, the number of credits earned by completing the course as stipulated in the unit standard, can contribute to the total number of credits required for a learner to obtain a recognised qualification. The SABI courses form part of the national certificate or national diploma in plant production as recognised by SAQA. If a learner is therefore registered for one of these qualifications, he/she will earn credits towards the completion of the qualification by completing a SABI course.

This document contains information regarding the range of courses to be presented in 2012.

Please fax the appropriate request form included on page 3 or 5 to the SABI office (021 850 8220) to obtain further information. You are also welcome to contact the SABI technical executive officer, Isobel van der Stoep, at 082 331 4987 or isobel@sabi.co.za.

OUR COURSE FACILITATORS

ISOBEL VAN DER STOEP PR ENG



Isobel van der Stoep is an agricultural engineer working in the field of irrigation and specialising in water management and measurement. She was a lecturer in irrigation engineering and rural development at the University of Pretoria for 9 years before joining consulting firm WSM Leshika in 2007. Isobel presented courses on irrigation design to engineering students at under and postgraduate level, and is still actively involved with the University of Pretoria as an external examiner. At SABI, she has been responsible for organising irrigation design and evaluation courses for the last 5 years. Isobel is still involved with a number of research projects. Her main focus currently is on the assessment and improvement of water use efficiency in the irrigation sector from catchment level to field level, specifically through the implementation of water measurement on a national basis.

JOHAN BARNARD



Johan Barnard is a former SABI president and irrigation professional with more than 40 years' experience. Originally trained as a civil engineering technician at the Cape Technikon, he became involved with irrigation in 1976 at "Boeresake" and worked his way up at a number of Cooperatives until his retirement in 2009 as Manager: Irrigation at Overberg Agri Ltd. A keen training enthusiast, Johan loves working with people and developing their skills, something he is exceptionally good at due to his more than 30 years' of training experience in the irrigation industry. Johan facilitates the Basic Principles of Irrigation, and Irrigation Sales Assistants' Courses, while he has also been instrumental in the development of the Principles of Surveying and Mapping Course.

FELIX REINDERS PR ENG



As Programme Manager: Agricultural Water Resources and Conservation at the Agricultural Research Council's Institute for Agricultural Engineering (ARC-IAE), Felix plays a pivotal role in the co-ordination of especially irrigation research, development, testing and design. Trained as a civil engineer, he has extensive experience in irrigation system evaluations, both in practice and in the presentation of courses for SABI and the ARC. With his experience in the irrigation field and as current chairperson of the SA National Committee on Irrigation and Drainage (SANCID), he represents South Africa on International committees and interacts with international counterparts on irrigation matters. At present, he serves on several International committees and is Honorary Vice-President of ICID and chairperson for the ICID Working Group for On-Farm Irrigation Systems.

A CAREER IN THE IRRIGATION INDUSTRY

The irrigation industry consists of the manufacturers or suppliers of equipment, retail outlets, irrigation design professionals, and irrigation installation and/or maintenance contractors, serving the agricultural sector which consists of more than 30 000 farmers irrigating around 1.5 million hectares of land in South Africa. Many local companies also work extensively in other African countries, while Australia, the Middle East, parts of the USA and other semi-arid areas often attract locally trained professionals due to the similarities in working conditions.

SABI has over the last 10 years developed an impressive range of courses to provide skills to the industry, from entry to advanced levels, presented in English and Afrikaans at different locations in Southern Africa. The following courses will be offered in 2012:

- **Irrigation sales assistant:**

Introduction to the industry and irrigation equipment – pipes, fittings, sprinklers, valves, filters and pumps.

- **Principles of surveying and mapping:**

An orientation course to prepare prospective irrigation design students to understand surveying and work with maps.

- **Introductory Irrigation Design Course:**

Our flagship course on irrigation system planning and design, presented over 4 non-consecutive block-weeks. An additional blockweek can be completed if accreditation with the AgriSETA is required (NQF level 5).

- **Computer aided irrigation design with Model Maker:**

A basic course on the use of the computer program Model Maker to design irrigation systems.

- **Advanced irrigation design course:**

For experienced practitioners in the irrigation field - an appropriate qualification with experience is a prerequisite for attending this course. The theme for 2012 will be “Optimising irrigation systems from an energy perspective”. The course is being developed in conjunction with electrical engineering experts and ESKOM, and aims to provide learners with the skills to interpret irrigation system evaluation results in order to identify opportunities for increased efficiency, especially in view of rising electricity costs.

THE SABI NATIONAL EXAMINATION (SNE)

Irrigation designers who are SABI members can write the SNE which will qualify them as a “SABI Approved Designer”. This status is an assurance to clients that the designer will provide an exceptional service and act according to a recognised code of practice. Approved designers’ names and contact details are published in every issue of the SABI magazine and on the SABI website (www.sabi.co.za)

Courses will be presented at various locations, as indicated on the Reply Sheet below. The SNE can be written upon request. The presentation of any course is subject a minimum number of registrations, and SABI reserves the right to change course dates, locations or language of presentation.



2012 SABI kursusse vir die besproeiingsbedryf en ontwerpers 2012 SABI courses for the irrigation industry and designers

| Nr | Kursus / Course | Plek van aanbieding Location | Kursusda- tum Course dates | Taal Language | Koste (BTW uit) Fee (VAT excl) | | Merk vir meer inligting Tick for more info |
|----|--|---------------------------------|---|------------------|-----------------------------------|---------------------------------------|--|
| | | | | | SABI lid / member | Nie- SABI lid / Non-SABI member | |
| 1 | Besproeiingsverkope assistent | Stellenbosch | 13-15 March | Afr/Eng | R2 950 | R3 190 | |
| | | Pretoria | 27-29 March | Afr/Eng | | | |
| | Irrigation sales assistant | KZN | 22-24 May | English | | | |
| 2 | Beginsels van opme- ting en kartering Principles of surveying and mapping | Pretoria | 16-18 Apr | Afr/Eng | R2 950 | R3 190 | |
| 3 | Inleidende Besproei- ingsontwerpkursus | Pretoria | 7-11 May 11-15 Jun 16-20 Jul 13-17 Aug | Afr/Eng | R10 500 | R11 050 | |
| | Introductory Irrigation Design Course | Stellenbosch | Depends on interest | Afr/Eng | | | |
| | Addisionele blokweek vir AgriSETA akkreditasie (NQF vlak 5) Additional blockweek for AgriSETA accredita- tion (NQF level 5) | Pretoria | 3-6 Sept | Afr/Eng | R4 050 | R4 300 | |
| 4 | Gerekenariseerde besproeiingsontwerp met Modelmaker | Stellenbosch | 28-30 Aug | Afr/Eng | R3 590 | R3 900 | |
| | Computer aided irrigation design with Modelmaker | Pretoria | 16-18 Oct | Afr/Eng | | | |
| 5 | Gevorderde besproei- ingsontwerpkursus Advanced irrigation design course | Stellenbosch | 19-21 Jun | Afr/Eng | R4 990 | R5 590 | |

Aan / To: Amanda Willemse | Fax: 021 850 8220 | E-mail: amanda@sabi.co.za

Stuur asb inligting oor die kursus/se in 2012 soos hierbo gemerk aan:

Please send information on the 2012 course/s as indicated above to:

Naam/Name: _____ Tel. Nr: _____

Organisasie/Organisation: _____ Fax Nr: _____

Posadres/Postal address: _____

e-pos/email: _____ Taal / Language: Afrikaans / Engels

BESPROEINGSBESTUUR OP DIE PLAAS

Hierdie reeks kursusse fokus op die bestuur en gebruik van besproeiingstelsels op plaasvlak en word so prakties as moontlik aangebied. Die kursusse is saamgestel volgens die vereistes van die AgriSETA. Akkreditasie vind plaas deur die College for Sustainable Agriculture in Somerset-Wes.

KURSUSSE IN 2012

- **Basiese beginsels van besproeiing:**
Gemik op persone wat verantwoordelik is vir die daaglikse bedryf en onderhoud van besproeiingstelsels op grondvlak. Stelselkomponente, aan en afskaf van die stelsel, en onderhoud (NQF vlak 1 & 2).
- **Besproeiingskedulering:**
Gemik op persone wat verantwoordelik is vir besproeiingskedulering op plaasvlak of die verskaffing van skeduleringsdienste. Opstel van skedules, data versameling en toesighouding (NQF vlak 3).
- **Installasie van besproeiingstelsels:**
Installasie van pype, toebehore en ander besproeiingstelsel komponente (NQF vlak 4).
- **Monitering van besproeiingstelsels:**
Toesighouding oor die bedryf van 'n besproeiingstelsel volgens 'n skeduleringsprogram en monitering van die doeltreffendheid van besproeiing deur middel van data versameling en interpretasie (NQF vlak 4).
- **Evaluasie van besproeiingstelsels:**
Evaluasie van die werkverrigting van die verskillende komponente van verskillende tipes besproeiingstelsels, interpretasie van evaluasie resultate en identifisering van onderhoud wat uitgevoer moet word. (NQF vlak 4).

Die aanbied van enige kursus is onderhewig aan 'n minimum aantal registrasies, en SABI behou die reg voor om kursus datums, plekke en taal van aanbieding te verander. Versoeke vir die aanbied van kursusse op ander plekke is welkom.

IRRIGATION MANAGEMENT AT FARM LEVEL

This range of courses focuses on the management and use of irrigation systems at farm level and is presented in a practical manner. The courses are compiled according to the requirements of the AgriSETA and accreditation takes place through the College for Sustainable Agriculture in Somerset West.

COURSES IN 2012:

- **Basic principles of irrigation**
Aimed at persons responsible for the daily operation and maintenance of irrigation systems in the field. Irrigation system components, starting up, switching off and maintenance of systems (NQF level 1 & 2).
- **Irrigation scheduling**
Aimed at persons responsible for irrigation scheduling at farm level or provision of scheduling services. Compiling irrigation schedules, data collection and supervision (NQF level 3).
- **Installation of irrigation systems**
Installation of pipes, fittings and other irrigation system components (NQF level 4).
- **Monitoring irrigation systems**
Supervising irrigation activities according to a scheduling plan and monitoring the efficiency of the irrigation system by means of data collection and interpretation (NQF level 4).
- **Evaluation of irrigation systems**
Evaluating the performance of the different components of various types of irrigation systems, interpretation of evaluation results, and identification of maintenance requirements (NQF level 4).

The presentation of any course is subject a minimum number of registrations, and SABI reserves the right to change course dates, locations or language of presentation. Requests for the presentation of courses at different locations are welcome.

2012 SABI kursusse oor besproeiingsbestuur 2012 SABI courses on irrigation management

| Nr | Kursus / Course | Plek van aanbieding Location | Kursusdatum Course dates | Taal Language | NQF vlak NQF level | Koste (BTW uit) Fee (VAT excl) | | Merk vir meer inligting Tick for more info |
|----|--|---------------------------------|-----------------------------|------------------|-----------------------|---|---|---|
| | | | | | | SABI lid / member | Nie- SABI lid / Non-SABI member | |
| 1 | Basiese beginsels van besproeiing | Pretoria | 3-5 Jul | Afr/Eng | 1 & 2 | R2 950 | R3 190 | |
| | Basic principles of irrigation | Stellenbosch | 10-12 Jul | Afr/Eng | | | | |
| | | Noord Kaap | 24-26 Jul | Afr/Eng | | | | |
| 2 | Besproeiingskedulering Irrigation scheduling | Pretoria | 9-11 Okt | Afr/Eng | 3 | R4 050 | R4 250 | |
| 3 | Installasie van besproeiingstelsels Installation of irrigation systems | Pretoria | 21-22 Aug | Afr/Eng | 4 | R2 450 | R2 750 | |
| 4 | Monitering van besproeiingstelsels Monitoring irrigation systems | Pretoria | 12 Sep | Afr/Eng | 4 | R1 575 | R1 790 | |
| 5 | Evaluasie van besproeiingstelsels | Eastern Cape | 18-20 Sept | Afr/Eng | 4 | R3 290 (excl evaluation kit - add R1000) | R3 590 (excl evaluation kit - add R1000) | |
| | Evaluation of irrigation systems | Stellenbosch | 2-4 Oct | Afr/Eng | | | | |
| 6 | Besproeiingsbestuur (nrs 3, 4 en 5 hierbo) Irrigation management (nrs 3, 4 & 5 above) | Pretoria | See above | Afr/Eng | 4 | R6 500 | R7 300 | |

Aan / To: Amanda Willemse | Fax: 021 850 8220 | E-mail: amanda@sabi.co.za

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Tel. Nr: _____

Organisasie/Organisation: _____

Fax Nr: _____

Posadres/Postal address: _____

e-pos/email: _____

Taal / Language: Afrikaans / Engels

SABI - your guarantee for appropriate irrigation technology

SABI also develops and presents customised training programmes for clients upon request. Some of the programmes completed recently include:

- **Efficient irrigation water use by Water User Associations and Water Users.**
Funded by the Fetwater network and presented on behalf of the Department of Water Affairs: Directorate Water Use Efficiency at Jacobsdal, Koffiefontein, Pongola and Vredendal.
- **Irrigation system management course.**
Presented to farm managers of the Umhlatusi Valley Sugar Company, Empangeni.
- **Basic principles of irrigation course.**
Funded by Department of Water Affairs Integrated Water Resources Management programme and presented to emerging farmers at Citrusdal.
- **Gauteng youth capacity building in the beautification of public health care centres & old age homes.**
Funded by the Gauteng Department of Health and Social Development and presented on behalf of Batataise Youth Development.
- **Energy Saving with Irrigation - Farmers Days in conjunction with Eskom.**
Presented in the North West, Limpopo, Northern Province and Mpumalanga provinces on issues related to irrigation design and maintenance that affects energy costs.
- **Irrigation management information days – in conjunction with SASOL.**
Farmers' days presented in the Upper Vaal water management area on soil fertility, irrigation system operation and management plus irrigation scheduling.

Please contact SABI Technical Executive Officer Isobel van der Stoep on 082 331 4987 or isobel@sabi.co.za to discuss your specific requirements.



FOR MORE INFORMATION ON SABI:

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