



IrrigationWise Academy

LEARN TO GROW



2019

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Introduction

Boosting irrigation knowledge and water conservation through training

SABI IrrigationWise Academy offers a range of training programmes to boost optimum irrigation practices and water conservation in South Africa and the continent. The Academy's focus is on boosting technical and engineering skills in both the agricultural and landscape sectors at all levels of operation. The Academy's programme are in-line with the objectives of SABI, the recognised representative organisation of the irrigation industry in South Africa.

SABI's aim is promoting the optimal and efficient use of irrigation water in South Africa, and the knowledge and skills vested in its members best equips the IrrigationWise Academy to advance efficient use and management of water.

The courses currently on offer have been developed over more than fifteen years and are aimed both at the agricultural and landscape irrigation industries and irrigation practitioners.



Nationwide

Most courses are scheduled for annual presentation in Pretoria and Stellenbosch but other venues can be included if an adequate number of learners can be assembled. The courses are presented in collaboration with the private sector, universities, research organisations and agricultural colleges.

The IrrigationWise Academy's training's philosophy is based on sound theoretical foundations, but with presentations done in a highly practical manner: this balance is achieved with the assistance of SABI company members and approved SABI designer members.

Accreditation

Where appropriate unit standards exist, SABI IrrigationWise Academy has aligned its courses with the requirements of the AgriSETA (Agricultural Sector Education and Training Authority). Thus learners are assured that the SABI Training course content and presentation meets the requirements of the SAQA (South African Qualifications Authority).

The landscape courses offered by SABI IrrigationWise Academy are certified by the USA-based Irrigation Association (IA) and therefore in line with international standards.

Conditions will apply as stipulated on page 5, 8 and 10. VAT is excluded in course prices.

Notably too, the number of credits earned when completing an AgriSETA accredited course can contribute to the total number of credits required for a learner to obtain a recognised qualification. SABI IrrigationWise Academy courses form part of the national certificate or national diploma in plant production as recognised by SAQA.

A comprehensive range of courses have been developed and are suited to:

- 💧 Irrigation sales assistants
- 💧 Irrigation designers (agricultural and landscape subsectors)
- 💧 Irrigation managers
- 💧 New and experienced farm workers
- 💧 Landscape irrigation contractors

The SABI IrrigationWise Academy also presents customised training programmes and facilitates training workshops for a variety of clients, such as parastatal organisations, farming estates and commodity groups.

For 2019 course information or registrations, contact us on 021 850 8220 or e-mail info@sabi.co.za



Our course facilitators

Uli Peters



Uli obtained his agricultural engineering degree from the University of Natal in 1984, and has been registered as a professional engineer with the Engineering Council of South Africa (ECSA) since 1992. Although he initially worked primarily in the agricultural sector for government departments and later on in commercial farming, he started his own company in 1993 focusing on landscape irrigation as a

contractor, designing and installing residential, commercial and sports field irrigation and water reticulation systems. Over the years he has remained active in the agricultural irrigation field, developing specialist knowledge on the design and installation of pump stations and pipelines, canals, reservoirs, dams, bulk water supply and rural rainwater harvesting systems. Uli brings a wealth of experience and practical knowledge to the IrrigationWise team, and is responsible for the agricultural irrigation design and management courses from 2019.

Annemarie van der Westhuizen



Annemarie is a horticulturist holding a MSc (Agriculture) Horticulture degree obtained at the University of Pretoria (UP) and is passionate about plant production. She worked as a researcher at the Department of Agriculture (now the ARC (VOPI) and Datametric services).

Annemarie developed an interest in programming and became involved in educational software development before returning to complete her Masters' degree in 2000.

At UP, she worked on a number of projects regarding irrigation of agronomical crops with gypsiferous mine water, and furthered her studies in irrigation scheduling, while assisting with undergraduate and post graduate classes. Thereafter she moved into private practice, establishing a tissue culture laboratory and doing freelance landscape irrigation designs. From 2008 to 2014 she was a senior research officer at SAPPI Forest Research, managing the research tissue culture laboratory and overseeing the hardening of the plants produced. She joined SABI in 2014 to assist with the development and presentation of existing and new courses and is currently responsible for the Irrigation Management and Landscape Irrigation courses.

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.



Our course facilitators

Corné Arlow



Corné Arlow completed a National Diploma and qualified as an Engineering Survey Technician in 1998 at Tshwane University of Technology after which he had to fulfil a bursary obligation at Eskom. In 2001 he moved to Cape Town where he started the Model Maker Systems agency for the Cape regions of South Africa now called MMS Design, and currently also specialises in GPS technology.

Corné provides sales, support and training assistance to many MMS users in his region and abroad. He wrote a popular Tips & Tricks column for SABI magazine about Irrimaker software from 2009. His hands-on knowledge and daily involvement with industry has equipped him perfectly to facilitate the courses on surveying and mapping, and computer aided design with IrriMaker.



Richard van der Merwe



Richard is a qualified agricultural engineer holding a BSc Engineering from the University of Natal. Richard has worked as an engineer in the Department of Agriculture and the Department of Water Affairs and Forestry as well as being a research engineer in the fields of irrigation and drainage at the Agricultural Research Council (ARC) from 2012 to 2017.

During this period, Richard became passionate about irrigation, having always had a strong interest and links to the agricultural water sector.

Richard, SABI Gauteng branch chairperson from 2017-2017, is also a SABI Approved Designer as well as an approved SABI irrigation system evaluator. Further, for the past four years Richard has served as the external examiner for the SABI Design course and is the external moderator for the Taung Agricultural College in the North West province for their course on irrigation and drainage. He has presented courses on irrigation to UNISA students, small holder farmers and commercial farmers. His research arena was the technical aspects of sub-surface drainage for the WRC, and he has spent time in the field evaluating different systems from centre pivots to micro and flood systems in the commercial farming sector. Richard is currently business manager and engineer for Southern Irrigation, and will present landscape irrigation courses especially for SABI IrrigationWise Academy.



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 15 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 under the banner of the IrrigationWise Academy from 2017.



The following courses will be offered in 2019:

- 💧 **Introduction to irrigation equipment and installation:**
Overview of equipment used in the agricultural irrigation industry – pipes, fittings, sprinklers, valves, filters and pumps- to provide a basic understanding of selection and operation thereof.
- 💧 **Principles of surveying and mapping:**
An orientation course preparing prospective irrigation design students to understand surveying and work with maps. Minimum admission requirements: Matric with mathematical literacy.
- 💧 **Introductory irrigation design course:**
Our flagship course on agricultural irrigation system planning and design, presented over 4 non-consecutive blockweeks. An additional blockweek can be completed if accreditation with the AgriSETA is required (NQF level 5). Minimum admission requirements: Matric with mathematical literacy.
- 💧 **Computer aided irrigation design with IrriMaker:**
A basic course on the use of the computer program IrriMaker to design irrigation systems. Attendees should have prior knowledge of, or training in irrigation design principles. This course is registered with ECSA for CPD points.
- 💧 **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.

The SABI National Examination (SNE)

Irrigation designers who are SABI members can write the SNE (SABI National Exam) which will qualify them as a “SABI Approved Designer - Agriculture”. 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. The SNE can be written upon request, please send an email to info@sabi.co.za for more information.

Conditions

Courses are scheduled at different locations. For certain courses, as indicated on the next page, prerequisite courses exist, or proof of prior learning may be required.

Course registrations close 10 calendar days before the course commences. The presentation of any course is subject a minimum number of registrations, and the IrrigationWise Academy reserves the right to change advertised course dates, locations, fees or the language of presentation.

The language of the presentations and material will be English, unless stipulated differently.



2019 Kursusse vir die landbou besproeiingsbedryf en ontwerpers
2019 Courses for the agricultural irrigation industry and designers

Kode	Kursus / Course	Plek van aanbieding	Kursusdatum	Koste (BTW uitgesluit)		Voorvereistes vir toelating / Pre-requisites for admission
		Location	Course dates	Fee (VAT excluded)		
				SABI lid / member	Nie- SABI lid / Non-SABI member	
D1	Inleiding tot besproeiingstoerusting en installasie Introduction to irrigation equipment and installation	Stellenbosch	5-7 Mar	R3 180	R3 440	Geen / None
		Pretoria	12-14 Mar			
		Tzaneen	14-16 May			
		Nelspruit	11-13 Jun			
		Upington	16-18 Jul			
D2	Beginsels van opmeting en kartering Principles of surveying and mapping	Stellenbosch	2-4 Apr	R3 960	R4 220	Matriek * / Matric* (Vereis / Required)
		Pretoria	9-11 Apr			
D3	Inleidende Besproeiingsontwerpkursus Introductory Irrigation Design Course	Stellenbosch	6-10 May	R13 000	R13 600	Matriek * / Matric * (Vereis / Required) Courses D1 & D2 (Aanbeveel / Recommended)
			3-7 June			
			8-12 July			
			5-8 Aug			
		Pretoria	20-24 May			
			24-28 June			
			22-26 July			
			19-22 Aug			



Kode	Kursus / Course	Plek van aanbieding	Kursusdatum	Koste (BTW uitgesluit)		Voorvereistes vir toelating / Pre-requisites for admission
		Location	Course dates	Fee (VAT excluded)		
				SABI lid / member	Nie- SABI lid / Non-SABI member	
D4	Blokweek vir AgriSETA akkreditasie (NQF vlak 5) Blockweek for AgriSETA accreditation (NQF level 5)	Pretoria	2-6 Sept	R6 050	R6 400	Course D3 or tertiary qualification * (Vereis / Required)
				Includes evaluation kit (value = R1300)		
D5	Gerekenariseerde besproeiingsontwerp met IrriMaker Computer aided irrigation design with IrriMaker	Stellenbosch	17-19 Sept	R5 090	R5 390	Course D3 or tertiary qualification * (Vereis / Required)
		Pretoria	8-10 Oct			
D6	Evaluasie van besproeiingstelsels Evaluation of irrigation systems	Pretoria	3-4 Sept	R3 960	R4 260	Course D3 or tertiary qualification * (Vereis / Required)
		Stellenbosch	22-23 Oct	Includes evaluation kit (value = R1300)		

** Courses D2 - D6 have a considerable mathematical content and attendees should have a good understanding of the subject.*



Besproeiingsbestuur 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 of Sustainable Agriculture in Somerset-Wes.

Kursusse in 2019

♦ **Basiese beginsels en installasie van besproeiingstelsels:**

Gemik op persone wat verantwoordelik is vir die daaglikse bedryf en onderhoud van besproeiingstelsels op grondvlak. Stelselkomponente, installasie, aan en afskakel van die stelsel, en onderhoud word behandel (NQF vlak 1 & 2).

♦ **Besproeiingskedulering:**

Gemik op persone wat verantwoordelik is vir besproeiingskedulering op plaasvlak of die verskaffing van skeduleringdienste. Opstel van skedules, data versameling en monitering.

♦ **Besproeiingsbestuur:**

Installasie van pype, toebehore en ander besproeiingstelsel komponente. Toesigging oor die bedryf van 'n besproeiingstelsel volgens 'n skeduleringprogram en monitering van die doeltreffendheid van besproeiing deur middel van data versameling en interpretasie. Evaluasie van die werkverrigting van die verskillende komponente van verskillende tipes besproeiingstelsels, interpretasie van evaluasieresultate en identifisering van onderhoud wat uitgevoer moet word. (NQF vlak 4).

Voorwaardes

Kursusse kan enige plek in Suid-Afrika aangebied word vir die gelyste prys soos getoon op die volgende bladsy, solank daar 'n minimum van 10 leerders per kursus geregistreer is.

Stuur asb versoeke vir doelgemaakte kursusse aan info@sabi.co.za.

Die taal van aanbieding van 'n kursus sal bepaal word deur die meerderheid leerders se voorkeur. Vir sekere kursusse, soos aangedui op die volgende bladsy, is daar voorvereiste kursusse wat eers voltooi moet word, of 'n leerder moet bewys kan lewer van genoegsame kennis om die kursus te kan bywoon.

Kursusregistrasies sluit 10 kalenderdae voor die aanbied van die kursus, en die aanbied van enige kursus is onderhewig aan 'n minimum aantal registrasies. SABI IrrigationWise Academy behou die reg voor om die darums, plek van aanbieding, foioe of taal van aanbieding van enige kursus soos ge-adverteer, te verander.

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 of Sustainable Agriculture in Somerset West.

Courses in 2019

♦ **Basic principles and installation of irrigation systems:**

Aimed at persons responsible for the daily operation and maintenance of irrigation systems in the field. Irrigation system components, installation, starting up, switching off and maintenance of systems will be covered (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 monitoring.

♦ **Irrigation management:**

Installation of pipes, fittings and other irrigation system components. Supervising irrigation activities according to a scheduling plan and monitoring the efficiency of the irrigation system by means of data collection and interpretation. 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).

Conditions

Courses can be presented anywhere in South Africa at the prices as listed on the following page, as long as there are a minimum of 10 learners registered per course.

Please send requests for tailor-made courses to info@sabi.co.za.

The language of presentation will be determined by the majority preference of the learners registering for the course. For certain courses, as indicated on the next page, prerequisite courses exist, or proof of prior learning / experience may be required.

Course registrations close 10 calendar days before the course commences. The presentation of any course is subject to a minimum number of registrations, and SABI IrrigationWise Academy reserves the right to change advertised course dates, locations, fees or the language of presentation.



2019 Kursusse vir die besproeiingsplaas en bestuurders 2019 Courses for the irrigation farm and managers

Code/ Kode	Kursus / Course	Plek van aanbieding Location	Kursusdatum Course dates	Taal Language	Koste (BTW uitgesluit) Fee (VAT excluded)		Voorvereistes vir toelating / Pre-requisites for admission
					SABI lid / member	Nie- SABI lid / Non-SABI member	
M1	NQF1 & NQF2: Basiese beginsels en installasie van besproeiingstelsels Basic principles and installation of irrigation systems	Kakamas	9-11 Apr	Afr	R2 920	R3 120	Geen / None
		Stellenbosch	16-18 Jul	Afr/Eng			
		Nelspruit	20-22 Aug	Afr/Eng			
		Tzaneen	10-12 Sept	Afr/Eng			
M2	Besproeiingskedulering Irrigation scheduling	Kimberley	28-30 May	Afr/Eng	R4 570	R4 820	Basic knowledge of irrigation systems (Vereis / Required)
		Nelspruit	26-28 Mar				
		Pretoria	9-11 Apr				
		Tzaneen	24-26 Sep				
M3	NQF4: Besproeiingsbestuur Irrigation Management	Empangeni	8-11 Apr	Eng	R6 570	R6 870	Basic knowledge of irrigation systems (Vereis / Required)
		Stellenbosch	21-24 Oct		Includes evaluation kit (value = R1300) as with D4		



A career in the landscape irrigation industry

Over the last few years we have received more and more queries on landscape irrigation training from both our members and other role players in the landscape irrigation industry. The following two courses are offered, with new courses being developed and added in the future.

The following courses will be offered in 2019:

- ◆ **Landscape irrigation installation course:**
Aimed at persons responsible for the installation and daily operation and maintenance of landscape irrigation systems. Irrigation system components, installation, starting up, switching off and maintenance of systems will be covered.
- ◆ **Introductory landscape irrigation design course:**
The course covers landscape irrigation system planning and design for residential and small commercial systems, presented over 2 non-consecutive blockweeks. Minimum admission requirements: Matric with mathematical literacy.
- ◆ **SABI's landscape courses** are accredited by the IA (Irrigation Association - www.ia.org) and are thus in line with international standards.

IA Landscape Irrigation Design Accreditation Exam

Landscape Irrigation designers who are SABI members can write the IA Landscape Design Accreditation Exam which will give them international accreditation. "SABI Approved Designer - Landscape" can be obtained by completing the Introductory Landscape Irrigation course (L2) successfully gaining at least 2 years experience and successfully complete the IA exam. 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. The IA accreditation exam can be written upon request, please send an email to info@sabi.co.za for more information.

Conditions

The courses are scheduled for presentation in Pretoria and Stellenbosch. For certain courses, as indicated on the next page, prerequisite courses exist, or proof of prior learning may be required. Course registrations close 10 calendar days before the course commences. The presentation of any course is subject to a minimum number of registrations, and SABI IrrigationWise Academy reserves the right to change advertised course dates, locations, fees or the language of presentation. Contact info@sabi.co.za for quotations for site specific courses.



2019 Kursusse vir die landskap besproeiingsbedryf 2019 Courses for the landscape irrigation industry

Code/ Kode	Kursus / Course	Plek van aanbieding Location	Kursusdatum Course dates	Taal Language	Koste (BTW uitgesluit) Fee (VAT excluded)		Voorvereistes vir toelating / Pre-requisites for admission
					SABI lid / member	Nie- SABI lid / Non-SABI member	
L1	Landskapbesproeiing installasie kursus Landscape irrigation installation course	Stellenbosch	4-7 June	Afr/Eng (material in English only)	R4 270	R4 620	Geen / None
		Pretoria	18-21 June				
L2	Inleidende landskap ontwerp kursus Introductory landscape irrigation design course	Stellenbosch	23-26 July	Afr/Eng (material in English only)	R8 610	R9 110	Matriek * / Matric * (Vereis / Required) L1 (Aanbeveel / Recommended)
			20-23 Aug				
		Pretoria	9-12 Jul				
			5-8 Aug				

*** Course L2 has a considerable mathematical content and attendees should have a good understanding of the subject.**





IrrigationWise Academy

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The IrrigationWise Academy also develops and presents customised training programmes for clients upon request

Some of the programmes completed 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 in the sugar cane industry, for interest groups such as Umhlatusi Valley Sugar Company, Illovo Sugar and TSB Sugar.
- ◆ 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.
- ◆ Irrigation operation, management and design courses for the ZZ2 group, Mooketsi.
- ◆ Irrigation management courses for Tongaat Hulett Sugar, Xinavane Estate, Mozambique.
- ◆ 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.
- ◆ Irrigation operation and management course at Westfalia, Tzaneen
- ◆ Basic irrigation principle courses for Grade 11 learners at agricultural schools in South Africa, for e.g Oakdale, Boland, Augsburg, Marlow, Bekker and Weston agricultural high schools.

Contact

admin@sabi.co.za for more information

www.sabi.co.za - T: **+27 21 850 8220**

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