Do something positive for water

Training Brochure 2020

“In a water-scarce country, irrigation and water professionals are in high demand in the agriculture and landscape environment”

SABI IrrigationWise Academy
♦ Offers a range of technical training programmes
♦ Promote optimum irrigation practices and water conservation in South Africa and the continent

+27 21 850 8220 – info@sabi.co.za – www.sabi.co.za
SABI IrrigationWise Academy:

- Focuses on growing technical and engineering skills in both the agricultural and landscape.
- Courses offered at all experience levels.
- A comprehensive range of courses have been developed and are suited to:
  - Irrigation sales assistants and newcomers to irrigation,
  - Novices to the irrigation industry,
  - Irrigation designers (agricultural and landscape subsectors),
  - Irrigation managers,
  - New and experienced farm workers,
  - Landscape irrigation contractors and designers.

The Academy’s programmes adhere to the objectives of SABI, the recognised representative organisation of the irrigation industry in South Africa.

SABI’s mission is to promote the optimal and efficient use of irrigation water and water conservation in South Africa.

The knowledge and skills vested in SABI’s members equips the SABI IrrigationWise Academy to advance efficient use and management of water.

The courses currently on offer have been developed over more than 20 years and are aimed both at the agricultural and landscape irrigation industries’ irrigation practitioners.

The courses are presented in collaboration with the private sector, universities and research organisations.

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

Schools programme

SABI IrrigationWise Academy also conducts irrigation training in agricultural schools in all provinces of South Africa. Since inception in 2013, around 2 000 Grade 11 learners have completed the course, giving them insight and a foundation in irrigation as a career.

Where are the courses held?

- Most of our courses are presented in Pretoria and Stellenbosch.
- Venues in other centres in South Africa may be included if enough learners sign-up for a course.

Customised training

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

Accreditation

- Where appropriate unit standards exist, SABI IrrigationWise Academy has aligned its agricultural courses to the requirements of the AgriSETA (Agricultural Sector Education and Training Authority).
- 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.
- 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.

For 2020 course information or registrations contact us on 021 850 8220 or e-mail admin@sabi.co.za

Terms and Conditions apply. See page 5, 8 and 10.

VAT is excluded in course prices.

IrrigationWise Academy clients – for whom customised training programmes have been successfully completed.

- Water User Associations and Water Users.
- Department of Water Affairs: Directorate Water Use Efficiency
- Sugar cane industry: Umhlatusi Valley Sugar Company, Illovo Sugar and TSB Sugar.
- Department of Water Affairs Integrated Water Resources Management Programme
- Gauteng Department of Health and Social Development & Batataise Youth Development.
- ZZ2 group, Mooketsi.
- Tongaat Hulett Sugar, Xinavane Estate, Mozambique.
- SASOL, Vaal.
- Westfalia, Tzaneen.
- Agricultural schools in South Africa, for e.g Oakdale, Boland, Augsburg, Porterville, Marlow, Bekker, Wagpos, Landboudal, Unicom, and Weston agricultural high schools.
- For more information about the portfolio of clients contact us.
Uli is an agricultural engineer (University of Natal), and is a registered professional engineer with the Engineering Council of South Africa (ECSA). Uli has many years’ experience in government and the private sector. He started and managed his own landscape irrigation business in 1993, designing and installing residential, commercial and sports field irrigation as well as water reticulation systems.

Uli is also active in the agricultural irrigation field, with specialist knowledge in the design and installation of pump stations, pipelines, canals, reservoirs, dams, bulk water supply and rural rainwater harvesting systems. Uli contributes his experience and practical knowledge to the IrrigationWise team, and is responsible for the agricultural irrigation design and management courses.

Johan Barnard is a former SABI president and irrigation professional with more than 40 years’ experience. Originally trained as a civil engineering technician (Cape Technikon), he became involved with irrigation at “Boeresoke” and worked his way up at a number of Cooperatives until his retirement in 2009 as Manager: Irrigation at Overberg Agri Ltd. As a 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. Johan presents the Basic Principles of Irrigation and the Introduction to Irrigation Equipment and has also assisted with the development of the Principles of Surveying and Mapping Course.

Annemarie van der Westhuizen

Annemarie is a horticulturist with a MSc(Agric) Horticulture (University of Pretoria (UP)), with a wealth of knowledge in the design and installation of pump stations, pipelines, canals, reservoirs, dams, bulk water supply and rural rainwater harvesting systems. While working at UP, she furthered her studies in irrigation scheduling and crop water requirements. Before teaming up with SABI IrrigationWise Academy, she was a senior research officer at SAPPI Forest Research, managing the research tissue culture laboratory.

Annemarie is the current chairperson of SAGIC (South African Green Industry Council), of which SABI is a member. Annemarie conducts irrigation management and landscape irrigation courses and also presents the SABI IrrigationWise agricultural schools’ course.

Johan Barnard

Richard Barnard is a former SABI president and irrigation professional with more than 40 years’ experience. Originally trained as a civil engineering technician (Cape Technikon), he became involved with irrigation at “Boeresoke” and worked his way up at a number of Cooperatives until his retirement in 2009 as Manager: Irrigation at Overberg Agri Ltd. As a 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. Johan presents the Basic Principles of Irrigation and the Introduction to Irrigation Equipment and has also assisted with the development of the Principles of Surveying and Mapping Course.

Corné Arlow

Corné Arlow is a horticulturist with a MSc(Agric) Horticulture (University of Pretoria (UP)), with a wealth of knowledge in the design and installation of pump stations, pipelines, canals, reservoirs, dams, bulk water supply and rural rainwater harvesting systems. While working at UP, she furthered her studies in irrigation scheduling and crop water requirements. Before teaming up with SABI IrrigationWise Academy, she was a senior research officer at SAPPI Forest Research, managing the research tissue culture laboratory.

Corné is a qualified Engineering Survey Technician (Tshwane University of Technology), who moved to Cape Town in 2001 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 the popular Tips & Tricks column for SABI magazine about Irrimaker software from 2009.

Richard van der Merwe

Richard is an agricultural engineer (University of Natal) and has worked as an engineer in the Department of Agriculture and the Department of Water Affairs and Forestry as a research engineer in the fields of irrigation and drainage at the Agricultural Research Council (ARC) from 2012 to 2017. Richard, a former SABI Gauteng branch chairperson, is a SABI Approved Designer and an approved SABI irrigation system evaluator.

Richard serves as the external examiner for the SABI Design course and is the external moderator for 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. Richard is currently business manager and engineer for Southern Irrigation and presents landscape irrigation courses for SABI IrrigationWise Academy.
A career in the agricultural 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.
- The agricultural sector consists of 30,000 farmers irrigating around 1.6 million hectares of land in South Africa.
- Many South Africans companies work extensively in other African countries.
- Australia, the Middle East, parts of the USA and other semi-arid areas often attract South African trained professionals due to the similarities in working conditions.
- SABI, as a custodian of irrigation knowledge in South Africa, has over the last 20 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.

Courses in 2020 (Can be completed in 1 year)

- **D1: 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.
- **D2: 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 a good mathematical understanding.
- **D3: Introductory irrigation design course:** Our flagship course on agricultural irrigation system planning and design, presented over four non-consecutive block weeks. An additional block week can be completed if accreditation with the AgriSETA is required (NQF level 5). Minimum admission requirements: Matric with a good mathematical understanding.
- **D5: 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.
- **D6: 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.
- **D7: Advanced irrigation design course:** A course for experienced practitioners in the irrigation field – an engineering qualification or SABI introductory design course certificate with experience is a prerequisite for attending this course. The course will be on water-hammer.

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.

Please note

- Courses are held at different locations. For certain courses prerequisite courses exists, 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 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/requested differently.
- Registration fees must be paid in advance.

Registration fees must be paid in advance.
<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Location</th>
<th>Course dates</th>
<th>Fee (VAT excluded)</th>
<th>Pre-requisites for admission</th>
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<tr>
<td>D1</td>
<td>Introduction to irrigation equipment and installation</td>
<td>Bloemfontein</td>
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<td>R3 400 R4 400</td>
<td>None</td>
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<td>Stellenbosch</td>
<td>17 - 19 Mar</td>
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<td>Pretoria</td>
<td>7 - 9 April</td>
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<td>D2</td>
<td>Principles of surveying and mapping</td>
<td>Stellenbosch</td>
<td>7 - 9 Apr</td>
<td>R4 240 R5 240</td>
<td>Matric* and suitable experience</td>
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<td>D3</td>
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<td>Matric* Course D1 or suitable experience</td>
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<td>8 - 12 June</td>
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<td>18 - 22 May</td>
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<td>22 - 26 June</td>
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<td>20 - 24 July</td>
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<td>11 - 14 Aug</td>
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<td>D4</td>
<td>Blockweek for AgriSETA accreditation (NQF level 5)</td>
<td>Stellenbosch</td>
<td>7 - 10 Sept</td>
<td>R6 470 R7 470</td>
<td>Course D3 or suitable experience (Required)</td>
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<td>Pretoria</td>
<td>14 - 17 Sept</td>
<td>Includes evaluation kit (value = R1 500)</td>
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<tr>
<td>D5</td>
<td>Computer aided irrigation design with IrriMaker</td>
<td>Stellenbosch</td>
<td>5 - 8 Oct</td>
<td>R5 446 R6 446</td>
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<td>D6</td>
<td>Evaluation of irrigation systems</td>
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<td>R4 237 R5 237</td>
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<td>16 - 17 Sept</td>
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<td>D7</td>
<td>Advanced irrigation design course - “Surge management in irrigation systems”</td>
<td>Stellenbosch</td>
<td>10 -12 Nov</td>
<td>R7000 R8000</td>
<td>Course D3 or suitable experience (Required)</td>
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<td>Pretoria</td>
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* Courses D2 - D6 have a considerable mathematical content and attendees should have a good understanding of the subject.
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 2020

- **M1: 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).

- **M2: Irrigation scheduling and management**: Aimed at persons responsible for irrigation scheduling at farm level or provision of scheduling services as well as management of irrigation systems. Installation of pipes, fittings and other irrigation system components. Compiling and supervising of irrigation activities according to a scheduling plan, data collection and monitoring programs 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 3 & 4).

### 2020 Courses for irrigation farmworkers and managers

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<tr>
<th>Code</th>
<th>Course</th>
<th>Location</th>
<th>Course dates</th>
<th>Fee (VAT excluded)</th>
<th>Pre-requisites for admission</th>
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<td>Non-SABI member</td>
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<tr>
<td>M1</td>
<td>M1: Basic principles and installation of irrigation systems</td>
<td>Northern Cape*</td>
<td>18 – 20 Feb</td>
<td>R3 124</td>
<td>R4 124</td>
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<td></td>
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<td>Limpopo*</td>
<td>10 – 12 Mar</td>
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<td>Pretoria</td>
<td>21-23 Apr</td>
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<td></td>
<td>Western Cape*</td>
<td>26 – 28 May</td>
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<td>Mpumalanga*</td>
<td>23 -25 June</td>
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<td>KwaZulu Natal*</td>
<td>21 – 23 Sept</td>
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<td>Eastern Cape*</td>
<td>27 -29 Oct</td>
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<tr>
<td>M2</td>
<td>M2: Irrigation scheduling and management</td>
<td>Northern Cape*</td>
<td>2 – 6 March</td>
<td>R7 570</td>
<td>R8 570</td>
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<td>Eastern Cape*</td>
<td>30 Mar – 3 Apr</td>
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<td>Western Cape*</td>
<td>11 – 15 May</td>
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<td>KwaZulu Natal*</td>
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<td>2 – 6 Nov</td>
<td>Includes evaluation kit (value = R1500) as with D4</td>
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*Location of courses scheduled by province will be determined by the location required of the majority of registered learners.

### Conditions

- Courses can be presented anywhere in South Africa at the prices as listed on the following page, as long as a minimum of 10 learners register 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.
- Location of courses scheduled by province will be determined by the location required of the majority of registered learners.
- For certain courses, as indicated on the next page, prerequisite courses 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 a minimum number of registrations.
- SABI IrrigationWise Academy reserves the right to change advertised course dates, locations, fees or language of presentation.
- Registration fees must be paid in advance.
Over the last few years we have received many queries on landscape irrigation training from both our members and other role players in the landscape irrigation industry.

### Courses in 2020

- **L1: Landscape irrigation installation course:**
  For personnel responsible for the installation, daily operation and maintenance of landscape irrigation systems. Irrigation system components, installation, starting up, switching off and maintenance of systems are covered.

- **L2: Introductory landscape irrigation design course:**
  This course covers landscape irrigation system planning and design for residential and small commercial systems, presented over two non-consecutive block weeks. Minimum admission requirements: Matric with a good mathematical understanding.

- **L3: Advanced landscape irrigation design course:**
  Improve landscape water efficiency with better design, including uniformity, equipment selection and technology for landscape, sports-field and golf-course irrigation systems.

- **L4: Computer aided landscape irrigation design:**
  A basic course on the use of a computer program to design landscape irrigation systems. Attendees should have prior knowledge of, or training in landscape irrigation design principles.

SABI’s landscape courses are accredited by the IA (Irrigation Association - www.irrigation.org) and are 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 two years’ experience and successfully completing 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, prerequisite courses 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.
- 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.
- Registration fees must be paid in advance.

### 2020 Courses for the landscape irrigation industry

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Location</th>
<th>Course dates</th>
<th>Fee (VAT excluded)</th>
<th>Pre-requisites for admission</th>
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<td>L1</td>
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<td>L2</td>
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<td>L3</td>
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<td>Pretoria</td>
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</tbody>
</table>

*Course L2 and L3 has a considerable mathematical content and attendees should have a good understanding of the subject.*
Training contact details

- admin@sabi.co.za for more information
- Web: www.sabi.co.za
- Tel: +27 21 850 8220
- e-mail: info@sabi.co.za or admin@sabi.co.za

+27 21 850 8220 - info@sabi.co.za - www.sabi.co.za