

# INTRODUCTION TO IRRIGATION



This course was developed by Subject Matter Expert Felix Reinders in collaboration with **SAGRITEX**.

**Felix Reinders** is a professional engineer registered with the Engineering Council of South Africa, he is well known in the industry and with his experience in the irrigation field, and as previous President of the South African Irrigation Institute and President Honoraire of the International Commission on Irrigation and Drainage, he adds great value to this course.

**Sagritex** produced and supplied the various audio-visual material on irrigation principles that form an integral part of irrigation course that compliments and supports the course content, adding to the learning experience, through a focus on the important role of and contribution of correct irrigation practices.

This programme is designed to introduce students to the world of irrigation and more specifically irrigation systems, design principles and scheduling.

This course is ideal for emerging farmers, recent school leavers or even established farmers wishing to upskill themselves or refresh their basic knowledge of irrigation principles and their understanding of already established, as well as planned irrigation systems, on their farm.

#### Language

English

#### Part Time

Approximately 10 hours/week

#### Delivery Method

Online Learning / Blended Learning  
(Online study material

Blended: Remote practical built into course.)

8 WEEKS

R6 300

LAUNCH DATES ON  
WEBSITE



**SAGRITEX**





**AGRICOLLEGES**  
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## COURSE UNITS

1. INTRODUCTION TO IRRIGATION
2. WATER
3. SOIL
4. CROPS
5. IRRIGATION SYSTEMS
6. IRRIGATION SCHEDULING
7. OPERATION AND MAINTENANCE

## ENTRY REQUIREMENTS

- This course is open to anyone from around the world.
- It will be advantageous for the applicant to have some farming background, whether it be Agriculture as a school subject, work experience on a farm for a couple of years or running their own agricultural operation, prior to registering for this course.
- All first time prospective learners will be required to complete our admissions assessment to ensure basic proficiency in the English language, numeracy and computer literacy.



## CURRICULUM

The course will start with 1 (one) week of free self-study in a preparatory orientation course including:

1. Getting a grip on Online Studying
2. Cyber Safety
3. Google Suite

Students who have completed, need not to complete this again. Students will receive a certificate on completion of the orientation course. This is a free add-on offered to all students to assist them in achieving success on the AGRICOLLEGES international platform. Once the preparatory courses have been completed, learners will work through core modules.

# COURSE OUTCOMES

After completing this course, students will:

- Have a basic understanding of irrigation principles and the role of water in the crop production cycle.
- Understand the bigger picture around water and water sources.
- Comprehend soil and how different soil types require different irrigation or water management.
- Understand the crop cycle in relation to water management and the need of different crops when it comes to water requirements.
- Be able to differentiate between the different irrigation systems and their uses.
- Understand the basic design principles for an irrigation system.
- Be able to do basic calculations around irrigation scheduling and understand the purpose of irrigation scheduling.
- Have a working knowledge of how to operate and maintain different irrigation systems.

## NOTE

*Majority of learning takes place online and students will require regular Internet access via a PC, tablet or smartphone to successfully complete this course*



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AVAILABLE

## CONTACT US

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