



# INFORMATION SHEET



## Agricultural Irrigation

### L3: ADVANCED LANDSCAPE IRRIGATION DESIGN COURSE

#### Who is the course aimed at?

Any person responsible for the planning and design of landscape irrigation systems for sports fields, golf courses and large commercial properties. Must have successfully completed the Introductory landscape irrigation course (L2) or a similar qualification.

#### Which skills will the learner acquire during the course?

#### After completing the course, the learner will:

- ◆ Understand plant water relationships, including the selection of equipment and scheduling practices to use water efficiently and be able to calculate landscape water requirements
- ◆ Understand the effect of soil properties on infiltration rate, soil moisture holding capacity and moisture extraction
- ◆ Be able to select different sprinklers and emitters based on their functions and understand the effect of spacing and the factors that influences it
- ◆ Apply the principles of hydraulics to design an irrigation system using all the applicable norms and standards
- ◆ Understand and be able to measure irrigation uniformity and efficiency
- ◆ Be able to apply advanced strategies for example outside-in design; cycle and soak; room for rain and inside-out design
- ◆ Be able to select efficient and suitable pressure and borehole pumps as well as pressure vessels
- ◆ Be able to select appropriate valves and controllers for a landscape irrigation system as well as “Smart Water Application Technologies”
- ◆ Understand the management and maintenance principles applicable to landscape irrigation systems
- ◆ The course is not product specific and will include a variety of manufacturers’ products

A SABI IrrigationWise Academy certificate of competence is issued upon successful completion of the course. Landscape courses are accredited by the IA (Irrigation Association) and are thus in line with international standards.

#### Course length: 1 block week

#### Venues

Western Cape

TBC

Gauteng

TBC

