



INFORMATION SHEET



Agricultural Irrigation

L2: INTRODUCTORY LANDSCAPE IRRIGATION DESIGN COURSE

Who is the course aimed at?

Any person responsible for the planning and design of landscape irrigation systems for residential and small commercial properties.

Which skills will the learner acquire during the course?

After completing the course, the learner will:

- ◆ Understand the principles of hydraulics including hydrostatics, hydrodynamics, pressure and flow determination, friction losses and water hammer
- ◆ Understand plant water relationships, including the selection of equipment and scheduling practices to use water efficiently
- ◆ Be able to select different sprinklers and emitters based on their functions
- ◆ Apply the principles of hydraulics to design an irrigation system using all the applicable norms and standards
- ◆ Understand the operational principles of pumps
- ◆ Be able to select efficient and suitable pressure and borehole pumps
- ◆ Understand the operating principles of automatic and manually controlled valves as well as the advantages and disadvantages of each type
- ◆ Be able to select appropriate valves for a landscape irrigation system
- ◆ Be able to select appropriate pressure vessels
- ◆ Be able to select effective filtration equipment to protect the irrigation system
- ◆ Understand the basics and application of electric circuits with emphasis on the low voltage principles used to control 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: 2 non-consecutive blockweeks

Venues

Western Cape	10 - 13 June 2024	Gauteng	18 - 21 June 2024
Western Cape	8 - 11 July 2024	Gauteng	22 - 25 July 2024

