



## Calculator Course 2024

We are pleased to announce that we will be hosting a Calculator Course in 2024.

Hydraulic design is inherently complex and often not fully understood. While software programs can assist in hydraulic calculations, true proficiency requires a deeper understanding of the underlying principles and the ability to interpret the results effectively.

During routine site visits, it is seldom feasible to use a laptop equipped with CAD or hydraulic calculation programs that can be rapidly accessed to provide your client with on-the-spot answers. Using a handheld programmable calculator enables the individual to make informed decisions without having to return to the office to access information.

### Calculator Programming

Participants will receive training in creating and using custom calculator programs, specifically tailored for design, on-site and estimation purposes. The course includes numerous practical exercises for providing familiarization of the calculator functions as well as individual and collaborative learning opportunities. Class sizes are intentionally kept small to ensure personalized attention and a high-quality learning experience.

### Programs

A wide variety of programs which include but not necessary limited to:

- Friction Loss Calculation.
- K-Factor Calculations.
- Sprinkler Flow and pressures.
- Flow Corrections.
- Orifice Plates.
- Velocity Calculations.
- Cut Length Calculations.
- Ring Main Calculations.
- System Resistance Curves.
- Water Supply Curves.
- System Intercept Point ( $P_{max}$ ,  $Q_{max}$ )
- Pump kW Calculations.
- Pump Deration Calculations.
- Affinity laws.
- NPSHa (Net Positive Suction Head Available) Calculations.

We invite interested professionals to join us for this valuable opportunity to enhance their skills and knowledge in hydraulic design and calculator programming.

# ASIB

## Calculator Course 2024

### Dates and Venue

The Calculator Course will be held at the Serengeti Golf and Wildlife conference facilities, located 15 km from OR Tambo International Airport. The venue is conveniently accessible via the R21 freeway. (The address can be found in the booking confirmation below)

The course will take place from Wednesday, 30<sup>th</sup> October to Friday, 1<sup>st</sup> November, 2024.

This course is open to all interested individuals, who are expected to have a fundamental knowledge of sprinkler systems and calculation and is set out as a package which includes:

- Sharp EL-5250 Programmable calculator.
- A custom handbook with all the relevant equations, calculator programs with example questions and answers for guidance.
- Stationary for the course.

### Wednesday the 30<sup>th</sup> of October 2024

- Start Time: 09:00
- Breaks: Two tea breaks and one lunch break
- Estimated End Time: 16:00

### Thursday the 31<sup>st</sup> of October 2024

- Start Time: 09:00
- Breaks: Two tea breaks and one lunch break
- Estimated End Time: 16:00

### Friday the 1<sup>st</sup> of November 2024

- Start Time: 09:00
- Breaks: Two tea breaks and one lunch break
- Estimated End Time: 16:00

Alcoholic beverages are not included.

To secure your spot, please complete the electronic application form by Friday the 18<sup>th</sup> of October 2024. As spaces are limited, early registration is encouraged.

Booking Form: [Calculator Course Booking](#)