



## **IRRIGATION INDUSTRY ASSOCIATION OF B.C.**

IIABC 205 – 2469 Montrose Avenue, Abbotsford BC V2S 3T2

P: 604-744-4274 E: iiabc@irrigationbc.com W: irrigationbc.com

Last date of review: July 10, 2024

Note: IIABC reserves the right to amend course outlines as needed without notice.

### **Fundamentals of Irrigation Design Course (FID)**

#### **Course Description:**

The Fundamentals of Irrigation Design course provides essential knowledge and skills for designing effective turf and landscape irrigation systems. This one-day course focuses on equipping participants with the fundamentals necessary to plan and implement efficient irrigation solutions.

**Note:** We highly recommend this course for those interested in taking any CID exams. The information within this course is neither a prerequisite for the CID programs, nor is it a comprehensive instruction for the content of the CID tests.

#### **Learning Outcomes:**

By the end of this course, participants will be able to:

1. Understand irrigation system equipment and components.
2. Calculate system hydraulics and friction losses.
3. Select appropriate sprinklers and design their spacing and layout.
4. Determine precipitation rates and develop a basic irrigation schedule.

#### **Course Content:**

1. **Irrigation System Equipment and Components**
  - Overview of equipment and components used in irrigation systems.
2. **System Hydraulics and Friction Losses**
  - Calculation of system hydraulics and understanding friction losses.
3. **Sprinkler Selection, Spacing, and Layout**
  - Techniques for selecting sprinklers and designing their spacing and layout.
4. **Precipitation Rates**
  - Calculation of precipitation rates for efficient water application.
5. **Developing a Basic Irrigation Schedule**
  - Methods for developing an effective irrigation schedule based on system requirements.

#### **Course Fees (Course fee is subject to change at any time):**

- **Non-Members:** \$600 + GST



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- **Members:** \$500 + GST
- **Course Retake Fee:** 70% of the respective fee you paid before when you took the course.

**Subsidies:** The Okanagan Basin Water Board (OBWB) is generously offering \$100 course subsidies to Okanagan residents and companies working on irrigation systems in the Okanagan.

**Prerequisite:** No prerequisites are required to enroll in this course. However, a basic understanding of irrigation principles is beneficial.

### Course Schedule:

- **Spring Term:** February to April, annually (Offered online only)
- **Winter Term:** November or December, annually during the annual conference (In-person only)

**Instructional Time:** The course includes 8 hours of instructional time, with breaks. Attendance is mandatory to be eligible for a statement of completion.

### Course Materials:

- **In-person Courses:** Materials are provided on the day of the course.
- **Online Courses:** Materials are mailed to your address or securely emailed to your email address.

**Exam Fee:** Not applicable.

**Exam Information:** There is no exam directly tied to this course.

Upon attending the course's instructional time, a statement of completion (also known as completion letter) is awarded to you.

For more information, please contact us at [iiabc@irrigationbc.com](mailto:iiabc@irrigationbc.com).

Approved by: IIABC Certification Board and Chair - Certification Board