



# 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.

## **Certified Irrigation Technician - Level One (CIT Level 1)**

### **Course Description:**

This comprehensive one-day course is designed to equip participants with the essential skills and knowledge to install and maintain efficient irrigation systems. Ideal for beginners and those seeking to solidify their foundational understanding, this course covers key components and practices critical to the irrigation industry.

### **Learning Outcomes:**

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

1. Identify and explain the components of an irrigation system.
2. Select appropriate pipes and fittings for various irrigation needs.
3. Introduction to accurately read and interpret irrigation plans.
4. Introduction to design and layout an effective sprinkler system.
5. Introduction to apply basic hydraulic principles to irrigation system design and troubleshooting.
6. Perform secure pipe connections using proper techniques.
7. Utilize industry-specific tools effectively.
8. Execute proper excavating and backfilling procedures.
9. Implement best practices for winterizing and starting up irrigation systems.
10. Understand and adhere to the IIABC standards and expectations for Certified Irrigation Technicians.

### **Course Content:**

1. **Irrigation System Anatomy**
  - Overview of controllers, backflow preventers, valves, and sprinklers.
2. **Items Required**
  - Identification and understanding of pipes and fittings necessary for system assembly.
3. **Reading a Plan**
  - Skills to accurately interpret irrigation plans.
4. **Sprinkler Layout & Precipitation Rates**



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- Techniques for effective sprinkler layout and calculation of precipitation rates for uniform water distribution.
- 5. **Introduction to Hydraulics**
  - Basic principles of hydraulics relevant to irrigation systems.
- 6. **Pipe Connections—Cements and Primers**
  - Methods for creating secure pipe connections using industry-standard cements and primers.
- 7. **Tool Knowledge—Industry-Specific Tools**
  - Familiarization with specialized tools used in the irrigation industry.
- 8. **Excavating & Backfilling**
  - Procedures for proper excavating and backfilling during system installation.
- 9. **Winterization and Spring Start-Up**
  - Best practices for winterizing irrigation systems and preparing them for spring.
- 10. **IIABC Expectations of a CIT**
  - Understanding the standards and expectations set by the Irrigation Industry Association of British Columbia for Certified Irrigation Technicians.

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

- **Non-Members:** \$375 + GST
- **Members:** \$340 + 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 prerequisite needed to take this course. This course is a prerequisite for the CIT Level 2 course.

### **Course Schedule:**

- **Spring Term:** February to April, annually (Offered online and in different regions)
- **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 to write the exam. You cannot challenge the exam without attending the full instructional time.



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### 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:

- **Members:** \$150 + GST (additional to course fee)
- **Non-members:** Not eligible to take the exam.

### Exam Information:

- **Format:** Multiple choice questions (100 MCQs)
- **Passing Percentage:** 75%
- **Proctoring:** Exam must be proctored and cannot be taken online.
- **Delivery Options:**
  - In-person course: Exam can be taken immediately after the course.
  - Online course: Exam can be taken at various post-secondary institutions in your city, check for listed proctoring locations on IIABC website (proctoring fees are the responsibility of the registrants).
- **Eligibility:** Only IIABC members can write the exam.
- **Re-write Fee:** \$100 + GST.

Upon passing the exam, a certificate will be emailed to you. To maintain your certification, an annual active certification fee (ACF) of \$25 is required, and only members in good standing names will be listed on our IIABC website under certified professional's directory.

For any further inquiries, please email us at [iiabc@irrigationbc.com](mailto:iiabc@irrigationbc.com).

Approved by: IIABC Certification Board and Chair - Certification Board