



IRRIGATION INDUSTRY ASSOCIATION OF B.C.

IIABC 205 – 2469 Montrose Avenue, Abbotsford BC V2S 3T2
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Certified Irrigation Designer (CID) - Turf Residential Program

Course Outline

1. Introduction

The Certified Irrigation Designer (CID) Turf Residential program, offered by the Irrigation Industry Association of British Columbia (IIABC), is designed for individuals seeking professional recognition in the field of residential irrigation design. This program establishes design standards and promotes water conservation, efficient irrigation practices, and ethical business operations.

This is an independent self-study program with no instructional time. Candidates prepare on their own and can write the exam when ready. This certification serves as a prerequisite for the CID Turf Commercial exam.

2. Program Objectives

- To establish consistent design standards across the industry.
- To ensure individuals demonstrate competency in residential irrigation design.
- To promote sustainable irrigation practices focusing on water, soil, and energy conservation.
- To provide certification recognition for qualified designers.

3. Eligibility Criteria

To qualify for the Turf Residential CID program, applicants must:

- Be a member of the IIABC or work for a member company.
- Have a minimum of one year of field experience in irrigation design.
- Successfully pass the certification examination.

4. Program Content

The Turf Residential CID program covers the following key topics:

4.1. Irrigation System Design Principles

- Understanding irrigation system components.
- Identifying water sources and pressure considerations.
- Selection of pipes, fittings, and valves.
- Zoning and layout techniques for residential turf irrigation.

4.2. Hydraulics and Water Flow Management

- Principles of water movement through an irrigation system.
- Flow rate calculations and pressure loss considerations.
- Selection of appropriate sprinkler types and emitters.

4.3. Soil and Plant Water Requirements

- Understanding soil types and their impact on irrigation.
- Determining plant water needs based on climate and soil conditions.
- Evapotranspiration concepts and irrigation scheduling.

4.4. Efficiency and Sustainability in Irrigation Design



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- Water conservation strategies.
- Smart irrigation technology and automation.
- Sustainable landscaping integration.

4.5. Irrigation System Installation and Maintenance Considerations

- Best practices for system installation.
- Troubleshooting common irrigation system problems.
- Maintenance planning for long-term system efficiency.

5. Examination and Certification Process

5.1. Exam Registration

To register for the Turf Residential CID exam, candidates must:

1. Download and complete the Certification Program Application Form and other required documents.
2. Submit the form along with payment to the IIABC office via email at iiabc@irrigationbc.com.
3. Receive the study textbook (does not include a study guide).
4. Study independently (suggested minimum 30 days) before scheduling the exam.

5.2. Exam Format

- The CID exam is a four-hour, open-book test.
- The passing grade is 75%.
- Candidates who fail may rewrite the exam for a fee of \$350 (+GST).

5.3. Certification Award

Upon successful completion, candidates will receive:

- A letter or certificate of completion.
- A professional digital seal, available for official use, once certification is obtained.
- Recognition on the IIABC website will be provided, and this must be verifiable; otherwise, certification cannot be used.

6. Program Costs

- **Turf Residential CID Exam:** \$775.00 + GST per person.
- **Exam Rewrite Fee:** \$350.00 + GST.
- **Annual Certification Fee:** \$50.00 per year.

7. Course Materials for the CID Residential Program

1. **The Landscape Irrigation Design Book (With Appendix)** by Eugene W. Rochester

This comprehensive reference manual is an integral part of the Residential Certification Program. It provides in-depth coverage of the key principles, techniques, and best practices in landscape irrigation design. The book serves as the primary resource for understanding the foundational concepts necessary for successful irrigation system planning and implementation.

2. **Turf and Landscape Irrigation Scheduling Booklet**

As part of the study material, this booklet addresses the critical aspects of irrigation scheduling for turf and



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landscape environments. It covers essential methods and strategies for determining appropriate irrigation schedules, ensuring water efficiency, and optimizing the performance of irrigation systems in diverse landscape settings.

8. Code of Ethics

Certified Irrigation Designers must adhere to the following ethical standards:

- Uphold the IIABC's objectives and bylaws.
- Promote conservation of water, soil, and energy in irrigation design.
- Present personal capabilities honestly in business practices.
- Follow IIABC standards for irrigation design, installation, and maintenance.
- Use the designer seal professionally and responsibly.

9. Continuing Education and Certification Maintenance

To maintain certification, a CID must:

- Be a member of IIABC at a good standing and pay an annual certification fee of \$50.00.
- Stay updated with industry standards and advancements.
- Submit Continuing Education Units (CEUs) if required by the IIABC.

10. Reinstatement of Certification

- If certification lapses for up to 1 year, the individual must pay past-due fees and meet CEU requirements.
- If certification lapses for more than 1 year, re-examination may be required.

11. Recognition of Equivalent Certifications

- The IIABC recognizes certain certifications from The Irrigation Association (IA).
- Members with IA certifications may be eligible for equivalency recognition.