



IRRIGATION INDUSTRY ASSOCIATION OF B.C.

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

Course Outline

1. Introduction

The Certified Irrigation Designer (CID) Turf Commercial program, offered by the Irrigation Industry Association of British Columbia (IIABC), is designed for professionals who want to specialize in commercial turf irrigation design. This program builds upon the knowledge acquired in the Turf Residential program and is intended to deepen understanding of larger-scale irrigation systems used in parks, schools, sports fields, and other commercial properties. The program emphasizes advanced irrigation design standards, sustainability, and efficient water management in commercial applications.

This is an independent self-study program, and candidates can write the exam once they feel ready. Certification as a Turf Commercial Designer follows the completion of the prerequisite Turf Residential Certification.

2. Program Objectives

- To establish advanced, consistent design standards in commercial turf irrigation.
- To ensure individuals demonstrate expertise in commercial-scale irrigation system design.
- To enhance water conservation and sustainability in large-scale irrigation systems.
- To provide professional certification and recognition for qualified commercial irrigation designers.

3. Eligibility Criteria

To qualify for the Turf Commercial CID program, applicants must meet the following requirements:

- Be a member of the IIABC or work for a member company.
- Have at least one year of field experience in irrigation design.
- Successfully complete the Turf Residential CID certification (this is a prerequisite).
- Successfully pass the Turf Commercial certification examination.

4. Program Content

The Turf Commercial CID program builds on the principles covered in the Turf Residential CID and covers the following key areas:

4.1. Commercial Irrigation System Design Principles

- Understanding large-scale irrigation system components.
- Water source identification and pressure considerations in commercial settings.
- Selection of pipes, fittings, and valves suited for large systems.
- Advanced zoning and layout techniques for commercial turf irrigation.

4.2. Advanced Hydraulics and Water Flow Management

- Complex principles of water movement in large irrigation systems.



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- Flow rate calculations, pressure loss, and distribution management.
- Selection of sprinklers, emitters, and system components based on commercial needs.

4.3. Soil and Plant Water Requirements in Commercial Settings

- Understanding varying soil types in commercial landscapes.
- Advanced techniques for calculating plant water needs in large turf areas.
- Evapotranspiration and climate factors influencing irrigation scheduling on commercial properties.

4.4. Water Conservation Strategies for Commercial Projects

- Implementation of water-saving technologies, including smart irrigation systems and automation.
- Sustainable irrigation practices for commercial turf maintenance.
- Integration of commercial irrigation systems with landscape sustainability goals.

4.5. Installation, Maintenance, and Troubleshooting of Commercial Systems

- Best practices for installing commercial irrigation systems.
- Maintenance techniques to ensure long-term system efficiency.
- Troubleshooting common issues in commercial irrigation systems.

5. Examination and Certification Process

5.1. Exam Registration

- To register for the Turf Commercial CID exam, candidates must:
 1. Download and complete the Certification Program Application Form.
 2. Submit the completed form along with payment to the IIABC office via email at iiabc@irrigationbc.com.
 3. Study the course material (same materials used for the Turf Residential Certification).
 4. Schedule and take the exam when ready (suggested minimum 30 days of study).

5.2. Exam Format

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

5.3. Certification Award

Upon successful completion of the Turf Commercial CID program, candidates will receive:

- A certificate recognizing the successful completion of the certification.
- A professional digital seal for official use.
- Recognition on the IIABC website as a Certified Commercial Irrigation Designer.

6. Program Costs

- Turf Commercial CID Exam: \$775.00 + GST per person.
- Exam Rewrite Fee: \$350.00 + GST.



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- Annual Certification Fee: \$50.00 per year (to maintain the certification with the annual membership).

7. Course Materials

Candidates must use the same course materials required for the Turf Residential CID certification, as the foundational content for both certifications overlaps:

1. **The Landscape Irrigation Design Book (With Appendix) by Eugene W. Rochester**
A comprehensive reference manual covering irrigation system design principles applicable to both residential and commercial landscapes.
2. **Turf and Landscape Irrigation Scheduling Booklet**
A booklet addressing the critical aspects of irrigation scheduling for turf and landscape environments, focusing on large-scale applications.

8. Certified Designer Recognition

- Upon successful completion, the commercial-certified designer will receive:
 - A certificate of completion.
 - A digital designer seal registered with IIABC for professional use.
- Commercial Certified Designers will be listed on the IIABC website's certification database.

9. Continuing Education and Certification Maintenance

To maintain certification, a Turf Commercial CID designer must:

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

10. Reinstatement of Certification

- If certification lapses for up to 1 year, the designer 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.