IRRIGATION INDUSTRY ASSOCIATION OF B.C.
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Certified Irrigation Designer (CID) – Agriculture Trickle Program

Course Outline

1. Introduction

The Certified Irrigation Designer (CID) Agriculture Trickle program, offered by the Irrigation Industry Association of British Columbia (IIABC), is designed for professionals specializing in the design and management of trickle (drip) irrigation systems for agricultural applications. This program covers the principles of efficient and sustainable irrigation, specifically for farms, orchards, and agricultural landscapes.

This is an independent self-study program. Candidates can take the exam once they feel prepared. The Agriculture Trickle Certification follows the same registration and certification process as other CID programs.

2. Program Objectives

- To promote consistent, high-quality design standards in agricultural trickle irrigation.
- To ensure professionals demonstrate expertise in designing efficient agricultural trickle irrigation systems.
- To enhance water conservation and sustainability practices in agricultural irrigation.
- To provide professional recognition for qualified agricultural trickle irrigation designers.

3. Eligibility Criteria

To qualify for the Agriculture Trickle CID program, applicants must meet the following requirements:

- Be a member of IIABC or work for a member company.
- Have at least one year of field experience in irrigation design.
- Successfully complete the required study program as determined by the certification board.
- Successfully pass the Agriculture Trickle certification examination.

4. Program Content

The Agriculture Trickle CID program covers the following key areas:

4.1 **Agricultural Trickle Irrigation System Design Principles**

- Understanding the components of trickle irrigation systems.
- Water source identification, pressure considerations, and system sizing for agricultural settings.
- Selection of pipes, fittings, and emitters appropriate for agricultural trickle irrigation systems.
- Zoning, layout, and system distribution for agricultural properties.

4.2 **Advanced Hydraulics and Water Flow Management**

- Principles of water movement in agricultural trickle irrigation systems.
- Flow rate calculations, pressure loss, and distribution management.
- Selection of emitters and drip lines based on crop and land requirements.

4.3 **Soil and Crop Water Requirements**

• Understanding soil types and their impact on water distribution in agricultural trickle irrigation.

• Calculating crop water requirements based on evapotranspiration rates and climate factors.

• Effective irrigation scheduling for varying crop needs.

4.4 **Water Conservation Strategies for Agricultural Systems**

• Implementation of water-saving technologies, such as drip systems and smart irrigation.

• Sustainable irrigation practices in agricultural systems to reduce water waste.

• Integration of irrigation systems with broader farm sustainability goals.

4.5 **Installation, Maintenance, and Troubleshooting of Agricultural Systems**

• Best practices for installing agricultural trickle irrigation systems.

• Maintenance strategies to ensure long-term system efficiency.

• Troubleshooting and resolving common issues in agricultural trickle irrigation systems.

5. Examination and Certification Process

5.1 **Exam Registration**

To register for the Agriculture Trickle CID exam, candidates must:

• Download and complete the Certification Program Application Form.

• Submit the completed form along with payment to the IIABC office via email at iiabc@irrigationbc.com.

• Study the course material provided by IIABC (including the Agriculture Trickle manual and reference materials).

• Schedule and take the exam when ready.

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 Agriculture Trickle CID program, candidates will receive:

• A certificate recognizing successful completion of the certification.

• A digital seal registered with IIABC, available for official use ($50 + GST).

• Recognition on the IIABC website as a Certified Agriculture Trickle Designer.

6. Program Costs

• **Agriculture Trickle CID Exam**: $775.00 + GST

• **Exam Rewrite Fee**: $350.00 + GST

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

7. Course Materials

Candidates will need the following study materials for the Agriculture Trickle CID certification:

• **BC Trickle Irrigation Manual** (reference material).

- The certification exam is based on this manual and is provided by IIABC as part of the study material.

8. Certified Designer Recognition

Upon successful completion, the Agriculture Trickle Certified Designer will receive:

• A certificate of completion.

• A professional digital designer seal registered with IIABC.

• Recognition in the IIABC certification database available on the website.

9. Continuing Education and Certification Maintenance

To maintain certification, Agriculture Trickle CID designers must:

• Remain members of IIABC in good standing and pay the annual certification fee of $50.00.

• Stay informed of industry developments.

• Submit Continuing Education Units (CEUs) as 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

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