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

Course Outline

1. **Introduction**

The Certified Irrigation Designer (CID) Agriculture Sprinkler program, offered by the Irrigation Industry Association of British Columbia (IIABC), is designed for professionals specializing in agricultural irrigation design. This program focuses on the design of irrigation systems for agricultural applications, including farms, orchards, and other large-scale agricultural landscapes. The program emphasizes practical design, water efficiency, and sustainability in agricultural irrigation systems. This is an independent self-study program. Candidates can take the exam once they feel prepared. Agriculture Sprinkler Certification follows the same registration and certification process as other CID programs.

2. **Program Objectives**

- To establish consistent, high-quality design standards in agricultural sprinkler irrigation.
- To ensure individuals demonstrate expertise in designing agricultural irrigation systems.
- To enhance water conservation and sustainability practices in agricultural irrigation systems.
- To provide professional certification and recognition for qualified agricultural irrigation designers.

3. **Eligibility Criteria**

To qualify for the Agriculture Sprinkler 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 required study program as determined by the certification board.
- Successfully pass the Agriculture Sprinkler certification examination.

4. **Program Content**

The Agriculture Sprinkler CID program covers the following key areas:

4.1 **Agricultural Irrigation System Design Principles**

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

4.2 **Advanced Hydraulics and Water Flow Management**

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

4.3 **Soil and Crop Water Requirements**

- Understanding soil types and their impact on water distribution in agricultural settings.
- Calculating crop water requirements based on evapotranspiration rates and climatic 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 landscape and farm sustainability goals.

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

- Best practices for installing agricultural irrigation systems.
- Maintenance strategies to ensure long-term system efficiency.
- Troubleshooting and resolving common issues in agricultural irrigation systems.

5. **Examination and Certification Process**

5.1 **Exam Registration**

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

- Download and complete the Certification Program Application Form.
- Submit the completed form and other required documents along with payment to the IIABC office via email at iiabc@irrigationbc.com.
- Study the course material provided by IIABC (including the Agriculture Sprinkler 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 Sprinkler CID program, candidates will receive:

- A certificate recognizing successful completion of the certification.
- A digital seal registered with IIABC, available for official use.
- Recognition on the IIABC website as a Certified Agriculture Sprinkler Designer.

6. **Program Costs**

- **Agriculture Sprinkler CID Exam**: $775.00 + GST
- **Exam Rewrite Fee**: $350.00 + GST
- **Annual Certification Fee**: $50.00 per year (to maintain certification with annual membership).

7. **Course Materials**

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

BC Sprinkler Irrigation Manual

- 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 Sprinkler 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 Sprinkler 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.