

# Education Course Descriptions

If you're involved with irrigation, IA education and training can make you more productive and your business more profitable. IA courses help professionals in landscape, golf and agricultural irrigation be more successful in the field and at their desks. Expanding technical and business skills will enable you and your employees to offer fast, effective solutions. When it's decision time, determining the best solution the first time will have a positive impact on personal productivity and client satisfaction—right down to your bottom line.

IA courses offer more than theory. Designed by industry experts especially for working professionals, our irrigation courses are based on real world applications, testing and experience. Just as important, IA courses are delivered by instructors who are experts in their respective fields with excellent presentation skills. You'll walk away with knowledge that you can put to work immediately.

Learn more about all of the IA course offerings on the following pages. You'll find more details and a continuously updated course schedule online. And remember, members receive substantial savings, so join the IA today.

Course description includes	La descripción del curso incluye	Course orientation	Course level Nivel del curso
<ul style="list-style-type: none"> <li>Continuing Education Units (CEUs)</li> <li>Course level and orientation</li> <li>Topics</li> <li>Prerequisites, if required</li> <li>Math level required</li> <li>Course length</li> <li>Availability in Spanish</li> </ul>	<ul style="list-style-type: none"> <li>Unidades de Educación Continua (CEUs)</li> <li>Nivel y orientación del curso</li> <li>Temas</li> <li>Prerrequisitos, si son necesarios</li> <li>Nivel de matemáticas requerido</li> <li>Duración del curso</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture</li> <li>Golf</li> </ul> <p><b>Orientación del curso</b></p> <ul style="list-style-type: none"> <li>Agricultura</li> <li>Golf</li> </ul>	<ul style="list-style-type: none"> <li>Landscape</li> <li>Professional</li> </ul> <p>• Jardinería</p> <p>• Profesional</p> <ul style="list-style-type: none"> <li>Basic/Beginner Básico/Principiante</li> <li>Intermediate Intermedio</li> <li>Advanced Avanzado</li> </ul>

## Course Titles • Nombres de los cursos

Course Titles • Nombres de los cursos	Orientación • Orientación
Advanced Irrigation Design for Water Conservation . . . . .	Landscape/Golf
Agricultural Drip/Micro Design . . . . .	Agriculture
Agricultural Irrigation Specialist . . . . .	Agriculture
Bidding and Estimating . . . . .	Professional
The Business of Irrigation Contracting . . . . .	Professional
Center Pivot Design . . . . .	Agriculture
Chemigation/Fertigation . . . . .	Agriculture
Contractor Sales . . . . .	Professional
Controller Troubleshooting . . . . .	Landscape/Golf
Designing Landscape and Golf Irrigation Systems with Reclaimed Water . . . . .	Landscape/Golf
Diagnóstico de Problemas Eléctricos Parte I: Diagnosticar Problemas de Cableado en el Campo . . . . .	Jardinería/Golf
Drip Design in the Landscape . . . . .	Landscape
Electrical Troubleshooting Part I: Diagnosing Field Wiring Problems . . . . .	Landscape/Golf
Electrical Troubleshooting Part II: Transformers, DC Systems, 2-Wire Systems & Controller Grounding . . . . .	Landscape/Golf
Field Hydraulics . . . . .	Agriculture/Landscape/Golf
Golf Irrigation Auditor . . . . .	Golf
Hyráulica Práctica . . . . .	Agricultura/Jardinería/Golf
Instalación y Mantenimiento de Sistemas de Riego . . . . .	Jardinería/Golf
Irrigation Contractor . . . . .	Landscape
Irrigation System Installation and Maintenance . . . . .	Landscape/Golf
Job Site Leadership Skills . . . . .	Professional
Landscape Drainage Design . . . . .	Landscape
Landscape Irrigation Auditor . . . . .	Landscape
Landscape Irrigation Design . . . . .	Landscape
Managing an Irrigation Service Company . . . . .	Professional
Predicting and Estimating Landscape Water Use . . . . .	Landscape/Golf
Principles of Irrigation . . . . .	Agriculture/Landscape/Golf
SMART Technologies for Irrigation Management . . . . .	Landscape
Sprinkler System Scheduling . . . . .	Landscape/Golf
Understanding Pumps, Controls & Wells . . . . .	Agriculture/Landscape/Golf

# Education Course Descriptions

## Advanced Irrigation Design for Water Conservation

🚰🚰🚰 Advanced, Landscape & Golf

- **8 IA CEUs**
- Focus: landscape water efficiency through better design for irrigation designers, contractors, water purveyors, suppliers and other irrigation professionals.
- Topics include: advanced concepts of irrigation design, uniformity and technology.
- Recommended prerequisites: proficiency in basic irrigation design skills and *Principles of Irrigation* and *Landscape Irrigation Design* courses.
- Math skills required: intermediate.
- Course includes: 1 day of instruction, manual and pipe sizing software.

## Agricultural Drip/Micro Design

🚰🚰🚰 Advanced, Agriculture

- **16 IA CEUs**
- Focus: efficient, economical system design especially for orchards and row crops; good review for CID Agricultural Drip/Micro Step 4 exam.
- Topics include: crop water requirements, filtration, pumping requirements, high efficiency design procedures, number of irrigation blocks, pressure regulation, emission uniformity, and emitter/sprayer selection and uniformity.
- Prerequisites: sound understanding of irrigation system hydraulics and soil-plant-water relationships, and familiarity with concepts of uniformity and efficiency. Recommended prerequisite courses are *Principles of Irrigation* and *Chemigation/Fertigation*.
- Math skills required: intermediate.
- Course includes: 2 days of instruction, manual, handouts and ag pipe sizing software.

## Agricultural Irrigation Specialist (Optional CAIS Course)

🚰🚰🚰 Advanced, Agriculture

- **13 IA CEUs**
- Focus: principles of irrigation system management for dealers, regulators and farmers, covering surface irrigation methods (furrow and border strip) and pressurized systems (micro and sprinklers).
- Topics include: when and how much to irrigate, evapotranspiration and crop coefficients, practical irrigation scheduling techniques, how irrigation efficiency and uniformity influence irrigation scheduling, and salinity effects.
- Recommended prerequisites: 1) on-farm irrigation management experience and completion of *Principles of Irrigation*; or 2) a degree in an agricultural related field; or 3) a CID certification.
- Math skills required: intermediate.
- Course includes: 1-1/2 days of instruction and manual.
- Exam: following the course, there may be an optional CAIS certification exam administered. The exam is an additional fee. Apply and register at least 30 days prior to the exam date.

## Bidding and Estimating

🚰🚰 Intermediate, Professional

- **7 IA CEUs**
- Focus: the most effective bidding systems for contractors, featuring hands-on practice compiling bids on real-life systems.
- Prerequisites: familiarity and experience with the business-end of the irrigation industry. A recommended prerequisite is *The Business of Irrigation Contracting*.
- Math skills required: basic.
- Course includes: 1 day of instruction, manual by Jim Huston and handouts.

*Each student must bring a laptop computer equipped with Excel '97 or later to class.*

## The Business of Irrigation Contracting

🚰 Basic/Beginner, Professional

- **7 IA CEUs**
- Focus: skills to keep your contracting business operating and profitable. Many contracting businesses fail within five years of start up due to lack of business savvy.
- Topics include: business plan basics, accounting for contractors, estimating and bidding, and evaluating the health of your business.
- Recommended prerequisites: experience in business operations, basic bidding and estimating skills and *Irrigation Contractor*.
- Math skills required: basic.
- Course includes: 1 day of instruction, manual and handouts.

## Center Pivot Design

🚰🚰🚰 Advanced, Agriculture

- **16 IA CEUs**
- Focus: theory and practical applications of center pivot system design.
- Topics include: inventory resources, application rates, hydraulics, mainline layout and sizing, plus nozzle selection and scheduling.
- Recommended prerequisites: *Principles of Irrigation*, *Understanding Pumps, Controls & Wells* and *Chemigation/Fertigation*.
- Math skills required: intermediate.
- Course includes: 2 days of instruction, manual and handouts.

No time for a class?

## Visit the IA Bookstore Online

The IA Bookstore offers the best irrigation publications. You'll find a large selection of books and software for ag, landscape and golf course irrigation. Order online or call the IA. Your books will be shipped right to your door.

# Education Course Descriptions

## Chemigation/Fertigation

💧 Intermediate, Agriculture

- **7 IA CEUs**
- Focus: basics of chemical injection for ag applications; excellent workshop for designers and dealers.
- Topics include: types of fertilizers and chemicals that can and should be injected, types of injectors and how to calculate injection rates. Note: States vary in requirements for chemigation applications. IA provides general information. Check with your local authorities for further training and specific requirements in your area.
- Recommended prerequisites: basic understanding of agricultural system operation and maintenance; background in concepts of uniformity and efficiency; and *Principles of Irrigation*. The ability to convert between metric and English measurements is helpful.
- Math skills required: intermediate.
- Course includes: 1 day of instruction, manual and handouts.

## Contractor Sales

💧 Intermediate, Professional

- **7 IA CEUs**
- Focus: establishing marketing strategies and sales goals along with valuable communication techniques.
- Topics include: cold calls, follow-up calls and closing, how to build the sale, identify buying signals and overcome rejection.
- Learn how to develop sales policy, build your sales department and differentiate your company from the competition.
- Recommended prerequisites: basic understanding of bidding and estimating techniques, overall business operation experience, *Bidding & Estimating* and *The Business of Irrigation Contracting*.
- Course includes: 1 day of instruction and manual.

## Controller Troubleshooting

💧 Intermediate, Landscape & Golf

- **8 IA CEUs**
- Focus: fixing simple controller problems onsite to get up and running quickly with minimum hassle.
- Topics include: motor problems on mechanical controllers, diagnosing triac and power supply failures, reading schematics, and circuit board diagnostics.
- Recommended prerequisites: general understanding of irrigation system operation and *Electrical Troubleshooting Part I* and *Part II*.
- Course includes: 1 day of instruction, use of meters and other tools during class, manual and handouts.

## Designing Landscape and Golf Irrigation Systems with Reclaimed Water

💧 Intermediate, Landscape & Golf

- **7 IA CEUs**
- Focus: principles of using reclaimed water for landscape and golf course irrigation for the experienced designer.
- Topics include: when and where to use reclaimed water, precautions to take and the sequential steps in reclaimed water systems design.
- Required prerequisite: experienced irrigation designer. Recommended precursor courses are *Landscape Irrigation Design* and *Advanced Irrigation Design for Water Conservation*.
- Math skills required: basic.
- Course includes: 1 day of instruction and handouts.

## Diagnóstico de Problemas Eléctricos Parte I: Diagnosticar Problemas de Cableado en el Campo

💧 Básico/Principiante, Jardinería y Golf

- **4 CEUs de IA**
- Punto central: lo básico del diagnóstico eléctrico para ahorrar tiempo y dinero.
- Temas: diagnosticar problemas de cableado en el campo sin salir del controlador, uso apropiado del voltamperímetro y diagnóstico de problemas de cableado basándose en las lecturas, y pasos para solucionar problemas eléctricos complicados, de esta manera casi nunca necesitará instalar un nuevo cableado.
- Prerrequisitos recomendados: conocimiento básico del funcionamiento mecánico y mantenimiento del sistema de irrigación, y el curso *Instalación y Mantenimiento de Sistemas de Riego*.
- El curso incluye: 1/2 día de instrucción, el manual y folletos.

## Drip Design in the Landscape

💧 Intermediate, Landscape

- **7 IA CEUs**
- Focus: where, when and how to use drip in landscape design.
- Topics include: line source and point source products, and the correct application for each type.
- Learn the four key drip design elements: emitter selection, system layout, system applications and scheduling.
- Recommended prerequisites: understanding of basic sprinkler hydraulics, some hands on experience with drip installation and/or maintenance and *Landscape Irrigation Design*.
- Math skills required: basic.
- Course includes: 1 day of instruction, manual, handouts and pipe sizing software.

# Education Course Descriptions

## Electrical Troubleshooting Part I: Diagnosing Field Wiring Problems

💧 Basic/Beginner, Landscape & Golf

- **4 IA CEUs**
- Focus: the basics of electrical troubleshooting that will save time and money.
- Topics: diagnosing field wiring problems without leaving the controller, proper use of volt-ohm meters, diagnosing wiring problems based on readings, and steps to sort out confusing electrical problems, so you'll rarely need to run new wire.
- Recommended prerequisites: basic understanding of irrigation system mechanical operation and maintenance, and *Irrigation System Installation and Maintenance*.
- Course includes: 1/2 day of instruction, manual and handouts.
- Available in Spanish.

## Electrical Troubleshooting Part II: Transformers, DC Systems, 2-Wire Systems & Controller Grounding

💧 Intermediate, Landscape & Golf

- **6 IA CEUs**
- Focus: working on sophisticated irrigation systems, designed for experienced installation and repair technicians, featuring hands-on practice with real meters and components on simulated systems.
- Topics include: advanced electrical problems such as 2-wire systems, DC systems, diagnosing advanced problems through amp readings, phasing and grounding, plus identifying basic sensor problems.
- Required prerequisite: past attendance in *Electrical Troubleshooting Part I* is mandatory, no exceptions. Working knowledge of irrigation systems and equipment is recommended.
- Course includes: 1 day of instruction, handouts and the use of simulation and test equipment.

## Field Hydraulics

💧 Basic/Beginner, Agriculture, Landscape & Golf

- **4 IA CEUs**
- Focus: basic hydraulics for irrigation system installation and maintenance technicians.
- Topics include: pipe sizing, friction loss, elevation changes, adjusting and modifying irrigation designs and existing systems, and calculating flow and pressure when adding, removing or changing heads on existing systems.
- Recommended prerequisites: working knowledge of irrigation system operation and mechanics of system additions and modifications.
- Math skills required: basic.
- Course includes: 1/2 day of instruction, manual, handouts and pipe sizing software.
- Available in Spanish.

## Golf Irrigation Auditor (Optional CGIA Course)

💧 Intermediate, Golf

- **12 IA CEUs**
- Focus: wise water management on the golf course.
- Topics: how to perform field tests on golf course irrigation systems to determine efficiency, plus how to calculate accurate watering schedules for irrigation systems by combining plant water use, soils and local weather data.
- Recommended prerequisites: basic understanding of sprinkler system operation, *Irrigation System Installation and Field Hydraulics*.
- Math skills required: basic.
- Course includes: 1-1/2 days of instruction and manual. Optional software available.
- Exam: following the course, there may be an optional CGIA certification exam administered. The exam is an additional fee. Apply and register at least 30 days prior to the exam date.

## Hidráulica Práctica

💧 Básico/Principiante, Agricultura, Jardinería y Golf

- **4 CEUs de IA**
- Punto central: lo básico de la hidráulica para técnicos en instalación y mantenimiento de sistemas de irrigación.
- Los temas incluyen: evaluación del tamaño de la tubería, pérdida por fricción, cambios de elevación, ajuste y modificación de los diseños de irrigación y de los sistemas existentes, y cálculo del flujo y la presión cuando se añade, se quita o se cambia las cabezas de los sistemas existentes.
- Prerrequisitos recomendados: conocimiento práctico de la operación del sistema de irrigación y de la mecánica para hacer adiciones y modificaciones al sistema.
- Conocimiento requerido de matemáticas: básico.
- El curso incluye: 1/2 día de instrucción, el manual, folletos y software para evaluar el tamaño de la tubería.

## Instalación y Mantenimiento de Sistemas de Riego

💧 Básico/Principiante, Jardinería y Golf

- **8 CEUs de IA**
- Punto central: práctica básica para la instalación y mantenimiento del sistema de irrigación, y también hidráulica básica.
- Los temas incluyen: pegar y reparar tuberías de PVC; instalación de aspersores y ajuste de cabezas; instalación y reparación de válvulas eléctricas; además, técnicas de cableado para el campo y el controlador.
- El curso incluye: 1 día de instrucción, el manual y software para evaluar el tamaño de la tubería.

# Education Course Descriptions

## Irrigation Contractor

🚰🚰🚰 Advanced, Landscape

- **15 IA CEUs**
- Focus: irrigation contractor skills; good review for CIC exam (*though not a substitute for studying exam reference materials*).
- Topics: advanced soil-water-plant relationships, advanced hydraulics, pumps, job safety requirements, national codes affecting our industry, scheduling, water conservation, and system uniformity and efficiency details.
- Recommended prerequisites: field experience in system installation and basic design skills (pipe sizing, friction loss, etc.), *Irrigation System Installation and Maintenance*, *Landscape Irrigation Auditor* and *Landscape Irrigation Design*.
- Math skills required: basic.
- Course includes: 2 days of instruction, manual, handouts and pipe sizing software.

## Irrigation System Installation and Maintenance

🚰 Basic/Beginner, Landscape & Golf

- **8 IA CEUs**
- Focus: hands-on basics of irrigation system installation and maintenance, plus basic hydraulics.
- Topics include: gluing and repairing PVC pipe; installing nozzles and adjusting heads; setting and repairing electric valves; plus field and controller wiring techniques.
- Course includes: 1 day of instruction, manual and pipe sizing software.
- Available in Spanish.

## Job Site Leadership Skills

🚰 Basic/Beginner, Professional

- **7 IA CEUs**
- Focus: communication, confrontation and delegation skills for the first-time foreman or supervisor.
- Topics: essential skills for success in manager training, communication and fulfilling responsibilities in a friendly, productive manner.
- Course includes: 1 day of instruction, manual and handouts.

## Landscape Drainage Design

🚰🚰 Intermediate, Landscape

- **6 IA CEUs**
- Focus: landscape drainage design for manufacturers, distributors and contractors.
- Topics include: drainage design criteria, slope, soils, runoff potential, drainage products, use and application (surface and subsurface methods).
- Recommended prerequisite: basic understanding of landscape operations.
- Math skills required: basic.
- Course includes: 1 day of instruction, manual and handouts.

## Landscape Irrigation Auditor (Optional CLIA Course)

🚰🚰 Intermediate, Landscape

- **12 IA CEUs**
- Focus: wise water management.
- Topics: how to perform field tests on irrigation systems to determine efficiency, plus how to calculate accurate watering schedules for irrigation systems by combining plant water use, soils and local weather data.
- Recommended prerequisites: basic understanding of sprinkler system operation, *Irrigation System Installation* and *Field Hydraulics*.
- Math skills required: basic.
- Course includes: 1-1/2 days of instruction and manual. Optional software available.
- Exam: following the course, there may be an optional CLIA certification exam administered. The exam is an additional fee. Apply and register at least 30 days prior to the exam date.

## Landscape Irrigation Design

🚰🚰 Intermediate, Landscape

- **16 IA CEUs**
- Focus: landscape irrigation design for irrigation designers.
- Topics: basic hydraulics, head layout, zoning, pipe sizing, routing and matched precipitation rate principles. Complete two designs from start to finish.
- Note: though not a certification preparatory class, a good precursor for the CID program.
- Recommended prerequisites: *Landscape Irrigation Auditor* and *Irrigation Systems and Maintenance*, plus basic understanding of sprinkler system components and operation.
- Math skills required: basic.
- Course includes: 2 days of instruction, manual, handouts and pipe sizing software.

## Managing an Irrigation Service Company

🚰🚰 Intermediate, Professional

- **4 IA CEUs**
- Focus: irrigation maintenance as a highly profitable, growing service opportunity for irrigation professionals.
- Topics include: irrigation service as a separate revenue center, service crew economies, service contracts, service marketing, and the differences between managing an installation division/company vs. a service division/company.
- Recommended prerequisites: familiarity and experience with the business-end of the irrigation industry.
- Math skills required: basic.
- Course includes: 1/2 day of instruction and handouts.

# Education Course Descriptions

## Predicting and Estimating Landscape Water Use

💧 Intermediate, Landscape & Golf

### • 4 IA CEUs

- Focus: estimating water use and costs using hands-on work and case studies for irrigation installers, designers and maintenance professionals and anyone involved in controlling and regulating water use.
- Topics: plan and budget site watering needs by combining your local weather data with site-specific planting and soil information. Calculate daily, monthly and yearly system water use at any project stage.
- Recommended prerequisites: working knowledge of irrigation systems and equipment and *Landscape Irrigation Auditor*. Also suggested are *Sprinkler System Scheduling* and *Landscape Irrigation Design*.
- Math skills required: basic.
- Course includes: 1/2 day of instruction, manual and handouts. Optional software available.

## Principles of Irrigation

💧 Intermediate, Agriculture, Landscape & Golf

### • 16 IA CEUs

- Focus: fundamental theory and application principles for ag and turf/landscape — for experienced irrigators only. *The standard for the irrigation industry; taught in English units.*
- Topics include: soil-water-plant relationships, advanced hydraulics, electricity, pumps, specialty valves and irrigation equipment.
- Note: though *not* a design class, this course can help CID candidates review for Step 2 and 3 exams. Also, individual advance preparation is highly recommended for those exams.
- Recommended prerequisites: basic irrigation design understanding, hydraulics, soil-plant-water relationships, *Landscape Irrigation Auditor*, *Landscape Irrigation Design* and *Understanding Pumps, Controls & Wells*.
- Math skills required: intermediate.
- Course includes: 2 days of instruction, manual, handouts and pipe sizing software.

## SMART Technologies for Irrigation Management

💧 Intermediate, Landscape

### • 8 IA CEUs

- Focus: emerging technologies to help contractors improve irrigation water management.
- Topics include: devices and features, how and where to install, and practical applications.
- Learn to use and install ET-based controllers and weather and soil moisture sensors.
- Math skills required: basic.
- Course includes: 1 day of instruction and manual.

## Sprinkler System Scheduling

💧 Basic/Beginner, Landscape & Golf

### • 4 IA CEUs

- Focus: development of accurate watering schedules using irrigation controllers on automatic systems for landscapers, irrigators and grounds maintenance personnel.
- Topics include: evapotranspiration rates, root zones, soil types and precipitation rates.
- Recommended prerequisites: basic irrigation system component and operation knowledge, familiarity with irrigation controllers and *Irrigation System Installation and Maintenance*.
- Math skills required: basic.
- Course includes: 1/2 day of instruction, manual, handouts and scheduling software.

## Understanding Pumps, Controls & Wells

💧 Basic/Beginner, Agriculture, Landscape & Golf

### • 4 IA CEUs

- Focus: pump controls and applications and the wells and pumping systems used with them. Applicable to landscape, golf and ag.
- Topics: pump fundamentals, pump types, which to use for different applications, relationship between impeller and motor size, reading pump curves, and sizing pumps for peak efficiency.
- Recommended prerequisite: basic understanding of irrigation system hydraulics.
- Math skills required: basic.
- Course includes: 1/2 day of instruction, manual and handouts.

# Advance Your Career with IA Education

## Advance Your Career with IA Education

Whether your interest is agriculture, turf/landscape, golf or business, the IA offers basic to advanced-level courses. All courses offer IA Continuing Education Units or CEUs. The most popular IA courses are offered in Spanish.

Course descriptions are posted under "Education" at the IA website. A class schedule is also continually updated online. Classes fill quickly. Advance registration is strongly recommended to reserve a seat.

IA education offers optional courses to help you prepare for IA professional certification exams. Refer to "Programs" under "Certification" at the IA website to find *Bulletins of Information* which recommend courses. Note: course and exam registration is separate.

If you're interested in following a specific study program, please refer to the tracks to see which courses will best fit your interests and job responsibilities.

## IA Certification

Certification is the formal recognition that a candidate has voluntarily met professional eligibility requirements and has passed tests demonstrating a competent level of job-related knowledge and skills. The six IA certification programs are:

- Certified Irrigation Contractor (CIC)
- Certified Irrigation Designer (CID)
- Certified Landscape Irrigation Auditor (CLIA)
- Certified Golf Irrigation Auditor (CGIA)
- Certified Agricultural Irrigation Specialist (CAIS)
- Certified Landscape Irrigation Manager (CLIM)

Exams are self-study. The IA offers exam references. IA education courses serve as building blocks and help candidates understand specific topics.



## IA Certification Gives You

- Greater knowledge of your profession.
- Confidence for you and your customers.
- Prestige and credibility among peers and customers.
- Knowledge of the latest techniques and practices.
- Personal and professional fulfillment.
- Professional advancement opportunities.

## Education Tracks

(Listed in recommended order)

### Agricultural Track

Understanding Pumps, Controls & Wells  
Principles of Irrigation: Agriculture  
Chemigation/Fertigation  
Center Pivot Design  
Agricultural Irrigation Specialist  
Agricultural Drip/Micro Design

### Installation and Maintenance Track

Irrigation System Installation and Maintenance  
Electrical Troubleshooting Part I:  
Diagnosing Field Wiring Problems  
Sprinkler System Scheduling  
Field Hydraulics  
SMART Technologies for Irrigation Management  
Electrical Troubleshooting Part II:  
Transformers, DC Systems, 2-Wire Systems &  
Controller Grounding  
Landscape Irrigation Auditor  
Golf Irrigation Auditor  
Understanding Pumps, Controls & Wells  
Controller Troubleshooting

### Landscape Irrigation Design Track

Landscape Irrigation Design  
Principles of Irrigation: Landscape  
Advanced Irrigation Design for Water Conservation  
Drip Design in the Landscape  
Predicting and Estimating Landscape Water Use  
Designing Landscape and Golf Irrigation Systems  
with Reclaimed Water  
Landscape Drainage Design

### Professional Track

Math Refresher Seminar (at Irrigation Show) **FREE!**  
The Business of Irrigation Contracting  
Contractor Sales  
Job Site Leadership Skills  
Managing an Irrigation Service Company  
Bidding and Estimating  
Irrigation Contractor