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IA has partnered with Cal Poly’s Irrigation Training & Research Center to offer a series of online courses.

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Irrigation Association Online Learning
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The Irrigation Association is committed to strengthening the industry’s workforce. IA offers the best irrigation education in the industry, with targeted training for all experience levels, from basic to advanced. Grow your own skills and knowledge, improve your team’s performance and see the results pay off, in the field and for your company’s bottom line.

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The Irrigation Association has partnered with Cal Poly’s Irrigation Training & Research Center to offer a series of online courses for landscape irrigation. Each ITRC class includes:

- Videos
- Interactive assignments
- Reading
- Online quizzes

See page 3 for course descriptions, CEUs and pricing.

Online Courses $110 member | $150 nonmember per course*

Earn four CEUs for each 4-hour interactive class

GET 90 DAYS OF UNLIMITED ACCESS TO:

- Online course with lesson summaries (approximately four hours total classroom time).
- Practical problems that apply learning to real-world solutions.
- Manual and/or workbook with step-by-step calculations.
- Additional resources, including pressure and friction loss charts, formulas and glossaries.
- Final test and certificate of completion at the end of the course.

Agriculture Irrigation Hydraulics
Understand how water pressure is created, managed and sustained in an agricultural irrigation system. This course focuses on the relationship between flow, velocity and pressure in typical agriculture systems.

Agriculture Sprinklers & Precipitation Rates
Review various types of agricultural sprinkler systems and their specific applications. Learn how to calculate precipitation rates and use them to create efficient irrigation schedules.

Electricity Troubleshooting for Landscape Irrigation Systems
Learn basic electrical terminology for landscape irrigation systems. Develop troubleshooting skills by using virtual meters to diagnose electrical problems commonly found in the field.

Introduction to Pumps
Understand when pumps are needed, how they work and interact with the irrigation system, and pump selection requirements. Learn how to read and interpret a typical pump curve.

Irrigated Soils
Gain a solid understanding of the soil-water relationship. Learn about soil components, formation, physical properties and textural classes. Topics include water movement within the soil and water uptake by plants.

Landscape Irrigation Precipitation Rates
Use precipitation rates and matched rate zones to design and maintain effective landscape systems. Avoid problems and make better, faster decisions by understanding the rate at which a sprinkler system applies water.

Landscape Irrigation Scheduling
Create and implement effective irrigation schedules that supply the right amount of water at the right time. Review soil-water-plant relationships and learn how to manage irrigation scheduling to use water wisely and maintain the landscape.

Soil-Plant-Air Continuum
Learn how water moves from the soil to plants to the air and back again. This course covers how plants use water for transpiration and photosynthesis, store energy from the sun for use by other living things, and use and emit carbon and oxygen in a continuous cycle that is essential to life.

WORTH FOUR CEUs EACH!

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* Prices are subject to change without notice
Turf/Landscape Irrigation Topics

Analyzing Water Sources for Landscape Irrigation
Learn how to analyze available water sources and choose the best solution for the needs of a specific landscape site.

Auditing Landscape Drip Irrigation Systems
Review which factors can be measured and verified when auditing drip irrigation systems. Topics include calculating application rates to improve schedules.

Automating Water Flow Measurement With Sensors
Explore the use of flow sensors, which are critical to managing water resources. Topics include using flow sensors and measuring water flow.

Basics of Filtering
Learn about the many different types of filters. Topics include an overview of available filters for landscape irrigation projects that use alternate water supplies.

Catchment Systems for Alternate Water Sources
Discover different types of storage tanks that make it possible to use alternative water sources for irrigation. Presented by the American Rainwater Catchment Systems Association.

Commissioning an Irrigation System
New green codes and standards are being adopted, which often require that the irrigation system be inspected and commissioned. Discuss the commissioning process.

Deficit Irrigation for Managing Landscapes
Learn different controller programming strategies and how to use them to reduce water use while maintaining healthy lawns and landscapes.

Do’s & Don’ts of Backflow Prevention Devices
Discover how to use backflow prevention devices to protect water sources coming from multiple points of connection.

Estimating Landscape Plant Water
Learn how to estimate plant water use in urban settings with this guide for landscape irrigation systems.

Field Study of Uniformity Improvements From Multi-Stream Rotational Spray Heads
Review actual field applications of how new nozzles perform in existing irrigation systems. Discover how to use innovative nozzles to improve distribution uniformity.

Graywater Irrigation
Find out how to use graywater as an alternate source. Topics include code requirements; water quality issues; and selecting equipment to harvest, store and distribute graywater.

A New Way to Evaluate Sprinkler Performance
Learn how sprinkler operational efficiency evaluates how sprinklers distribute water when used in different spacing configurations.

Proper Grounding Techniques
Master the theory of electrical surges. Learn how to make better decisions when specifying or installing grounding equipment.

Rainwater Harvesting — Engineered Failures
Learn about common problems in rainwater harvesting. Topics include solutions to avoid potential problems and ensure success.

Rainwater Harvesting for Irrigation
Review the components and equipment needed for rainwater harvesting. Topics include collection and storage, plus using rainwater for landscape irrigation.

Rainwater Harvesting — Underground Storage Design & Construction
Evaluate the pros and cons of various underground rainwater storage options, plus tips for proper installation.

Refining the Landscape Coefficient for Improved Irrigation Management
Learn to create effective irrigation schedules. Topics include how to use evapotranspiration data to better estimate plant water needs.

Return on Investment for Irrigation Upgrades
Review how to calculate the return on investment on innovative products and system upgrades to improve efficiency.

Starting With Efficiency
From a water provider’s point of view, designing or installing an irrigation system should start with high efficiency. Learn different methods to achieve high efficiency using this philosophy.

Sustainable Landscapes & Water-Use Efficiency
Learn key principles of sustainable landscapes and their impact on reducing water use. Understand how landscape modifications and the use of technology provide new opportunities for irrigation professionals to become part of the solution to managing water resources.

Treating Alternative Water For Irrigation
Discover different ways to treat alternative water for landscape irrigation use. Topics include how to comply with the many codes regulating alternative water.

Using Water Budgets as a Management Tool
Learn strategies to reduce water use while maintaining a viable landscape, even during drought conditions.

Water Movement in Soils & Its Implications for Drip Irrigation
Understand how water moves in the soil and the implications for landscape drip systems. Topics include how to position emitters or microsprays to apply water to encourage good root development.

Water Quality for Ornamental Plants/Landscaping
Learn about the water quality requirements of ornamental plants commonly used in managed landscapes.

Watering Within the Lines: Water-Use Restrictions vs. Water Budgets
Discover the relative savings from using a water budget instead of traditional watering restrictions. This case study presents an Austin Water pilot program to measure savings from quantity limits and flexible watering schedules.

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Agriculture Irrigation Topics

Auditing Ag Drip/ Microirrigation Systems
Learn how to audit agriculture drip/microirrigation systems and evaluate how well emission devices are performing. Topics include implications for scheduling, optimizing yield, common problems and possible solutions.

Auditing Center Pivot Systems for Nozzle Performance
Discover how to audit center pivot systems and measure how nozzles apply water. Topics include using audit results to make better decisions about repairs and managing water resources.

Benefits of Pressure Compensation
Understand the benefits of different emission devices for agricultural drip irrigation systems. Includes real and theoretical case studies on using pressure and non-pressure compensating emission devices.

Calculating Precipitation Rates for Mechanized Ag Irrigation Systems
Learn how to calculate the rate of water application, essential for effective water management. Topics include creating irrigation schedules to reduce water and energy use without significant impact on yield.

Irrigating With Variable Rate Irrigation
Discover how to use variable rate irrigation as a water management strategy. Topics include defining VRI, various applications and using VRI to maximize irrigation efficiency.

Irrigation for Vegetable Crops
Make better decisions to maximize yield for high-value horticultural crops. Topics include irrigation best practices and managing water resources during drought.

Maintenance of Microirrigation Systems
Learn how to keep microirrigation systems working optimally. Topics include routine maintenance to avoid reducing the overall efficiency of microirrigation systems.

Recent Advances in Remote Sensing for Mechanized Irrigation Management
Explore how to remotely monitor center pivot or lateral move machines using sensors. This course covers best practices and recent advances in remote sensing.

Solutions for Maximizing Irrigated Areas Using Moving Sprinkler Systems
Discover economic solutions to maximize the irrigated area, increase yield and simplify irrigation management.

Water Movement in Soils
Understand important aspects of the soil-water relationship. Learn how to apply these concepts and principles to improve irrigation decisions and increase water-use efficiency.

About the Irrigation Association
The Irrigation Association is the leading membership organization for irrigation equipment and system manufacturers, dealers, distributors, designers, consultants, contractors and end users. Together with its members, IA is committed to promoting efficient irrigation and to long-term sustainability of water resources.

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