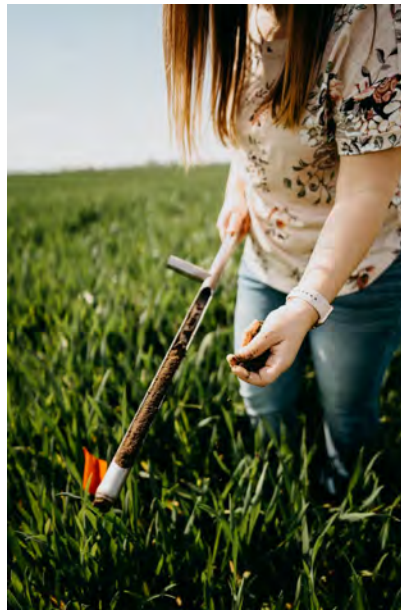

AGRICULTURE IRRIGATION TECHNICIAN

This certificate prepares students to take the Irrigation Association Industry Certification exam to become a Certified Irrigation Technician. Students receive 500 hours of training in one semester: 285 hours of classroom instruction and up to 225 hours of work-based learning.



WHAT YOU WILL LEARN

IrriCAD software •Irrigation System Design •Water Measurement •Irrigation Automation •Hydraulics
Soil Moisture Measurement •Flow Control •Irrigation System Evaluation •Pumping & Delivery
Irrigation Scheduling •Conservation

WHERE DO YOU SEE YOURSELF?

Irrigation Technician •Water Efficiency Specialist •Agricultural Technical Specialist •Irrigation Installer
Water Conservation Coordinator •Water Quality Specialist •Irrigation Maintenance Technician

PAY RANGE

Average salary for entry-level irrigation technicians is between \$17-\$25 per hour.
Technicians with 5 years of experience can make between \$26-\$35 per hour.



Learn More at
COS.EDU/AgIrrigation

PROGRAM CONTACT:

Charles Abee
(559) 688-3141
charlesa@cos.edu

CERTIFICATE PROGRAM

SKILL CERTIFICATE IN AGRICULTURE IRRIGATION TECHNICIAN – 15 Units

CLASSES YOU WILL TAKE

AGTC 219 Irrigation System Design

This course covers irrigation system design fundamentals covering micro, sprinkler, surface, and sub-surface applications. Topics include on-farm systems, piping, and discharge as well as system efficiency and cost. Students will utilize IrriCAD and other design software.

AGTC 220 Irrigation Wells and Pumps

Management and evaluation of irrigation wells, pumps and their drive systems. Emphasis is placed on system hydraulics, pump curves and selection, efficient operation, management, energy conservation, setup, maintenance, and repair.

AGTC 222 Ag Irrigation Systems

This course covers the fundamentals of irrigation system installation and maintenance to include sprinkler, micro, surface, and sub-surface applications. Topics include pumping and delivery systems, piping, flow control, equipment setup, and testing. Emphasis will be placed on cost effective installation and maintenance requirements for efficient operation.

PLSI 108 Water Management

Irrigation and drainage problems that focus on soil-plant-water relationships, application scheduling, evapotranspiration, and efficiency. Introduction to irrigation equipment and technology to include water measurement, soil moisture measurement, pumping and delivery systems, and various irrigation methods. California water infrastructure, water budget, water rights, and legislation.

WEXP 193F Ag Work Experience

This course is designed to give students occupational learning opportunities and career awareness. This is accomplished through employment (paid or volunteer), providing learning related to the student's educational or occupational goal. The student's employer must agree to participate by assisting in developing measurable learning objectives, verifying hours worked, meeting with the designated college instructor, and providing an evaluation of the student learning objectives.

[Get Started at COS.EDU/Admissions](https://cos.edu/admissions)