

Professional Advantage for Water Managers

The Water Management Certificate Program provides professional education and training to persons who are, or will be, managers of organizations that have governance authority and institutional responsibility to develop, store, and deliver water resources to the people they serve. The program's objective is to help individuals become more effective managers, whether they are in public or private institutions.

This unique collaboration between the Agribusiness & Water Council of Arizona and Arizona State University (ASU) has been designed by distinguished practitioners of water resources and power management who have decades of experience and are among the most knowledgeable and recognized leaders in the field.

This is Not Just a Policy or Theory Oriented Program!

All the instructors are experienced managers or technical experts whose insights are not necessarily found in text books or academic theories. The goal is to prepare the next generation of leaders who will require knowledge and skills beyond just moving water from point to point.

November 2, 2017

Class Protocol

Classes will be conducted in a classroom/television studio at the Arizona State University Polytechnic Campus. This set-up provides a sense of immediacy with the instructors and a chance to network with colleagues in the class as well as the faculty. In addition, the telecast opportunity provides an option to participate in the class via live video conferencing for individuals outside of the Phoenix area. Occasionally, it will provide individual class members who are not able to make a particular class an opportunity to attend the class remotely.

All instructional materials or other incidentals required by the instructors are provided by the program. Additionally, food and beverages are provided for, snacks, continental breakfast and lunch for class sessions, as well as for the program initiation and graduation dinners.

The format of the class will involve one partial weekend commitment each month - Friday from 1PM – 5PM and Saturday from 9AM – 5PM. Field trips may be included. The course of instruction will be nine months.

2018-19 Schedule

September 28 & 29, 2018
October 26 & 27
November 30 - December 1
January 25 & 26, 2019
March 1 & 2
March 29 & 30
April 26 & 27
May 17 & 18
June 21 - Graduation



Water Management Certificate Program

A Collaborative Effort by
The Agribusiness & Water Council of Arizona
&
Arizona State University

Class Content Will Include:

Water Resources

- ◆ History of water resources development
- ◆ Water terminology
- ◆ Introduction to Water Law
- ◆ Groundwater Management Act
- ◆ Environmental regulatory compliance
- ◆ Managing limited resources

Management Essentials

- ◆ Managing people and diverse interests
- ◆ Strategic planning
- ◆ Understanding board relationships
- ◆ Organizational planning
- ◆ Allocating resources
- ◆ Budgeting process and bonding
- ◆ Financial management

Operations/Maintenance

- ◆ Equipment purchase & maintenance
- ◆ Canal and well maintenance
- ◆ Water scheduling
- ◆ Technology
- ◆ Safety procedures

Land Use

- ◆ Federal, tribal, state, county & local rights of way
- ◆ Land survey
- ◆ Federal & state laws

Energy Resource Management

- ◆ Federal hydropower
- ◆ Power purchases
- ◆ Transmission services and power scheduling
- ◆ Supplemental energy & capacity
- ◆ Low head hydro

Role of Consultant/Attorney

- ◆ Contractual agreements
 - ◆ Service contracts
 - ◆ Water supply & pricing
- ## Inter-governmental Relationships
- ◆ Government policies
 - ◆ Regulatory and legislative environment
 - ◆ City, county and tribal governments

Communication

- ◆ Shareholders, stakeholders, boards & employees
- ◆ International
- ◆ Media

Advanced Topics

- ◆ Uses & management of reclaimed water
- ◆ Underground storage, CAGR, water bank
- ◆ Water & energy nexus
- ◆ Arizona Power Authority, APS, SRP, Hoover
- ◆ Case studies, role playing, management scenarios

Classes begin in September, 2018 and meet once a month on Friday afternoon and all day Saturday for nine months. This cohort will conclude in June, 2019. For those of you who are unable to complete the regular curriculum in nine months, you may discuss with the dean of the faculty the design of a module, choosing some of the classes, to fit your needs. You may also opt to extend the program over a two year period in order to complete all requirements for the issuance of a certificate.

Intent to Participate

- ◆ Your affiliation & all contact information
- ◆ A letter of interest from the individual applicant
- ◆ A letter of support from the sponsoring agency, if appropriate
- ◆ A current résumé

The cost is \$3600 for the complete program.

Please return all requested information to:

The Agribusiness & Water Council of Arizona
1819 E. Southern Ave. Suite E-10
Mesa, Arizona 85204

or email: kathy@agribusinessarizona.org

For More Information Contact:

Kathy Rappleye, (480) 558-5301
kathy@agribusinessarizona.org

or

Larry Olson, (480) 727-1499
Larry.Olson@asu.edu

or online at

www.agribusinessarizona.org

Faculty

Brian Betcher

- ◆ General Manager, Maricopa Stanfield IDD
- ◆ Project Engineer, Bookman-Edmonston Engineering

Dave Brown, Esquire

- ◆ JD, Brown and Brown, PLC

George Cairo

- ◆ Civil/Agricultural Engineering, Water Resources & Conveyance Design

Tom Davis

- ◆ President, Agribusiness & Water Council of Arizona
- ◆ General Manager, Yuma Co. Water User's Assoc.
- ◆ Former Manager, U.S. Forest Service

Sandy Fabritz

- ◆ Manager, Water Resources, Freeport McMoran
- ◆ Former Director, Arizona Department of Water Resources

George Fletcher

- ◆ Founder & President, Replenishment Services, L.L.C., a water consultancy
- ◆ Former Director, Phoenix office of Bookman-Edmonston Engineering
- ◆ Former Water Resource Manager, City of Tempe

Ed Gerak

- ◆ Executive Director—Arizona Power Authority, 2017-current
- ◆ General Manager, Buckeye WCDD 2007—2017

Elston Grubaugh

- ◆ General Manager, Wellton-Mohawk Irrigation & Drainage District
- ◆ Similar experience in NM, TX & CA

Bob Lynch

- ◆ Attorney-Water, Power & Environmental Law
- ◆ IEDA

Richard Morrison, Esquire

- ◆ JD, Salmon, Lewis and Weldon, PLC
- ◆ Ranch Owner/Operator in Northern Arizona

Wade Noble, Esquire

- ◆ Coordinator—Yuma Co. Agriculture Water Coalition
- ◆ General Counsel, Wellton-Mohawk IDD

Dr. Larry Olson

- ◆ Professor, Arizona State University

Paul Orme, Esquire

- ◆ JD, Counsel with Salmon, Lewis & Weldon, PLC
- ◆ General Counsel to numerous irrigation & electrical districts

N.W. "Bill" Plummer

- ◆ Past President, Agribusiness & Water Council of Arizona
- ◆ Former Director, Arizona Department of Water Resources
- ◆ Former Regional Director, Bureau of Reclamation

Sarah Porter

- ◆ Executive Director, Kyl Center for Water Policy

Dave Roberts

- ◆ Associate General Manager, Water Resources, Salt River Project

George Saperich PhD

- ◆ Emeritus Professor, Arizona State University

Dave Slick

- ◆ Manager of Energy Initiatives and Asset Management, Salt River Project

Jim Sweeney

- ◆ Former General Manager, Maricopa Water District

Warren Tenney

- ◆ Executive Director—AZ Municipal Water Users Assoc.
- ◆ Former Asst. General Manager Metro Water District

Chris Udall

- ◆ Executive Director, Agribusiness & Water Council of Arizona
- ◆ Former Congressional Field Director, Liaison

Grant Ward

- ◆ Water & Power Consultant

Cheryl Zittle

- ◆ Senior Director, Water Customer Service, Salt River Project
- ◆ Vice President, National Water Resources Association