

WATER UTILITIES OPERATOR CERTIFICATION HISTOGRAPH

| 1910 | 1920 | 1930 | 1940 | 1950 | 1960 | 1970 |
|---|--|---|--|--|---|---|
| OPERATOR CERTIFICATION PROGRAMS | | | | | | |
| <p>1913 Legislature directs T.D.H. to inform industry of public health concerns</p> <p>1915 McFarland Water Law and McNealous Stream Pollution Control Law passed</p> | <p>1923 Mandatory Certification Bill failed</p> | <p>1934 T.W.W.A. Voluntary Water Works Certification began</p> <p>1935 T.W.W.A. encourages coordination between training/certification</p> <p>1938 T.W.W.A. Voluntary Sewage Works Certification</p> | <p>1941 Clayton Billings T.D.H. Branch Chief</p> <p>1945 Mandatory water and wastewater certification bill passed by legislature &</p> <p>Texas Department of Health adopts T.W.W.A. certification programs &</p> <p>Open-book examinations discontinued</p> | <p>1956 Sam L. Warrington T.D.H. Branch Chief</p> | <p>1966 High School Diploma/G.E.D. required & Grade D Certificates added</p> | <p>1970 T.D.H. certification began using computers & Combined Certification Advisory Committees</p> <p>1977 Lester Blaske T.D.H. Branch Chief</p> |
| T.W.U.A. ORGANIZATION | | | | | | |
| <p>1918 Texas Water Works Association formed (T.W.W.A.)</p> | <p>1920 First T.W.W.A. Annual School</p> <p>1928 T.W.W.A. Sewage Section organized</p> | <p>1933 Pearle Goodwin named Assistant Secretary-Treasurer</p> <p>1937 First T.W.W.A. District Formed (Wichita Falls) &</p> <p>First Water Manual published</p> <p>1938 First Advanced Classes offered</p> <p>1939 Laboratory Training introduced</p> | <p>1946 First Wastewater Manual published</p> <p>1947 Name changed to Texas Water and Sewage Works Association (T.W.S.W.A.) &</p> <p>T.W.S.W.A. recognizes District Members</p> <p>1948 First Regional School (Arlington)</p> | | <p>1960 Double A Club organized</p> | <p>1970 Name changed to Texas Water Utilities Association (T.W.U.A.)</p> <p>1975 First Executive Director employed Robert B. Batchelor</p> |
| OTHER | | | | | | |
| | <p>1930 266 Members 0 Districts 266 at Annual School</p> <p>14 at Annual School</p> | <p>1940 254 Members 0 Regions 15 Districts 254 at Annual School</p> | <p>1950 1,549 Members 2 Regions 35 Districts 519 at Annual School</p> | <p>1960 3,066 Members 5 Regions 39 Districts 715 at Annual School</p> | <p>1970 5,043 Members 8 Regions 40 Districts 850 at Annual School</p> | |

WATER UTILITIES OPERATOR CERTIFICATION HISTOGRAPH

| | 1980 | 1990 | 2000 | 2010 |
|--|--|--|--|--|
| OPERATOR CERTIFICATION PROGRAMS | | | | |
| <p>1982 Designated course requirements added & Groundwater and Surface Water separated</p> <p>1982 Charles McEnire T.D.H. Branch Chief</p> <p>1985 Certification fees for water added</p> <p>1985 Merton J. Coloton T.W.C. Unit Head</p> | <p>1985 Wastewater Program transferred to Texas Water Commission</p> <p>1987 All wastewater process control workers required to be certified</p> <p>1989 Certification fees for wastewater added</p> | <p>1991 Wastewater Facilities Classification System introduced & Voluntary Water Distribution Certificate added & Wastewater Collection System Certificate added</p> <p>1991 Robert O. Tinstman T.W.C. Unit Head</p> | <p>1993 Texas Natural Resource Conservation Commission (T.N.R.C.C.) formed</p> <p>1998 Juanita R. Lopez TNRCC Certification Section Manager & Consumer Confidence Reports introduced</p> <p>1999 EPA Certification Guidelines introduced</p> | <p>2001 E.P.A. Certification Guidelines implemented & Perpetual Licenses are no longer valid</p> <p>2002 Texas Commission on Environmental Quality (T.C.E.Q.) formed</p> |
| T.W.U.A. ORGANIZATION | | | | |
| <p>1981 Laboratory Analyst's Section formed</p> <p>1981 First Exhibits at Annual School</p> <p>1982 Ronald H. Bearden Executive Director</p> <p>1985 Customer Service Section formed</p> <p>1988 T.W.U.A. History Book published</p> | <p>1989 Daniel C. Allen Executive Director</p> <p>1989 Guidelines for District Training Programs published & First Technical Assistance Publication (T.A.P.) produced & Voluntary Customer Service Certification began</p> | <p>1990 Texas Water Utilities Journal introduced & T.W.U.A. assumes program review and attendance proctoring & Voluntary L.A.S. Certification began</p> <p>1991 Regional School Guidelines issued & T.W.U.A. becomes IRS 501(c)(3) Tax Exempt organization & First certification study guide published</p> | <p>1992 Water Utilities Management Manual published</p> <p>1993 Accredited Instructor Program began</p> <p>1995 IRS Group Exemption for T.W.U.A. Subsidiary Units</p> <p>1996 Anniversary Year Membership began</p> <p>1997 T.W.U.A. on Internet & Pretreatment & Environmental Section (P.E.S.) formed</p> | <p>1998 Contract Instructors Program began</p> <p>2000 A Club Formed</p> |
| OTHER | | | | |
| <p>1980 5,897 Members 9 Regions 45 Districts 761 at Annual School</p> | <p>1990 7,922 Members 9 Regions 59 Districts and Chapters 1,162 at Annual School</p> | <p>2000 9,442 Members 9 Regions 74 Districts and Chapters 1,254 at Annual School</p> | | |