

Suggested Credit	Session Length	Course Title	Instructor(s) Name
R/R	5 hours	Water Well Design by the Numbers	Marvin F. Glotfelty, PG, RG; David L. Kill, PE
R/R	1 hour	Basic Pump Sizing and Understanding the Pump Curve	Scott O'Brien
S/B	1 hour	Business Efficiency - Are We Really in It for the Money	David Baker
R/R	1 hour	Drilling Reactive Clays and Shales	Jim Hutmacher
S/B	1 hour	Getting Past the "Feel-Good" Part of a Groundwater Project in Third World Country	Edd T. Schofield
S/B	1 hour	How to Conserve Water Using Innovative Techniques with Traditional Problem Water Treatments	Matthew Wirth, BA
S/B	1 hour	The Emerging Revolution in Groundwater Rights	Jesse J. Richardson, Jr, J.D.
R/R	1 hour	Advanced Curves, NPSHr, and Sizing Programs	Daniel Featherstone
R/R	1 hour	Don't Forget to Disinfect...Developing a Strategy for Microbiological Contamination in Private Water Systems	Kirk Sheasgreen
S/B	1 hour	Groundwater Industry Legislative Update and Current Issues	Lauren Schapker; Margaret Martens
S/B	1 hour	Phase Converters, VFDs and Low Harmonics. Why Should I Care? Phase Converters, Variable Frequency Drives (VFDs) & Low Harmonic Requirements. What Do They Have In Common, and Why Should I Care?	Nicholas Kingsbury
S/B	1 hour	Transitioning to the 2018 Tax Year: How Will It Compare to 2017?	Daniel T. Meyer, CPA, MGWC, CVCLD
R/R	1 hour	We Mix Properties...Not Mud!!	Douglass Keller
S/B	1 hour	How to Become a Groundwater Guardian Green Site	Jennifer Wemhoff
R/R	1 hour	Performing Plumbness and Alignment Tests - The Lost, but Essential Art	Roger E. Renner, MGWC, NGWAF; Fred Rothauge
S/B	1 hour	Preventative Maintenance - Extending the Life of Your Water	Kevin McGinnis
S/B	1 hour	Supply Chain Survival in the Age of Amazon	David Henrich, CWD/PI, CVCLD
S/B	1 hour	US Department of Energy Pump Efficiency Standards - What You Need to Know	Jeff Frank
S/B	1 hour	Using Digital Meters on VFD's	Tom Stephan

S/B	1 hour	Constant Pressure System - The Opportunity, the Challenges, the Playbook	Mark Reeder
S/B	1 hour	Inexpensive and Effective Safety Resources Any Company Can Use	Jim Wright
R/R	1 hour	Water Well Rehabilitation and Time Based Preventive Maintenance	Neil Mansuy
S/B	1 hour	2018 OSHA Crane Rule for Creans in Construction	John Fowler, CSP, CMSP
R/R	1 hour	Biofilm Presence in Potable Wells and Effective Chemical Treatment Strategies for Removal	Eric Duderstadt
S/B	1 hour	Navigating the 2018 Tax Laws to Reduce Uncertainty and Improve Profitability	Brent Ardit; Joe Popp, JD, LLM
S/B	1 hour	Protecting Today's More Efficient Pump Motors from PWM Damage	Patrick Hogg
S/B	1 hour	Solar Powered Single Phase 3-inch AC Pumps for Replacing Windmills	Nikola Milivojevic, PhD
S/B	1 hour	Tier IV Engines	Fred McAninch
S/B	1 hour	AC/Solar Power Blending - Maximize Free Solar Power Without Compromising Performance	Jeff Lints
S/B	1 hour	An Introduction to Behavioral Based Safety (BBS)	Bill Lillich
S/B	1 hour	Materials of Construction and Pumps - What to Use When	Kyle Lanier
R/R	1 hour	Redefining Water Treatment Technology Selection for Today's Water Quality Challenges	Richard A. Mest
S/B	1 hour	Support Services for the 21st Century Business	Don Cleveland
S/B	1 hour	Scientific Groundwater Terminology You May Not Fully Understand - Let's Discuss	Roger Miller
R/R	1 hour	Single Phase Motors and Control Testing	Brian Broga
S/B	1 hour	The Essentials for Contractors Working at Surface Mines	John Fowler, CSP, CMSP
S/B	1 hour	Green Infrastructure	Dan O'Rourke, P.G.
S/B	1 hour	How Water Well Contractors Can Become Invincible to Lawsuits and Save Thousands in Taxes	Larry Oxenham
S/B	1 hour	Radium Removal from Potable Water Supplies	Peter Meyers
S/B	1 hour	Resources to Assist You In Outreach and Education to Private Well Owners and Other Professionals	Steve D. Wilson

S/B	1 hour	Unraveling the Causes of Well Inefficiencies	Thom Hanna, PG
R/R	4 hours	Direct Push Technology - As Useful as Ever...and Cost Effective Too	Bruce Manchon, PG; John Sciacca, PG
R/R	2 hours	Advanced Methods for Monitoring and Sampling Karst Groundwater Systems	Jason S. Polk, PhD; James Shelley
R/R	2 hours	Direct Push Methods for Groundwater Sampling & Monitoring	Wes McCall, PG
S/B	3 hours	Airborne Electromagnetic Surveys for Hydrogeologic Frameworks and Groundwater Management	James Cannia, BSc, PG; Jared Abraham
S/B	4 hours	Borehole Geophysical Logging for Water Resources/Water Supply Applications	Bruce Manchon, PG; John Sciacca, PG
R/R	1 hour	Grouting Tools and Techniques for Geothermal Wells	Stewart Krause; Todd Tannehill