

## Tri-State Seminar Approved Wastewater CEUs [www.tristateseminar.com](http://www.tristateseminar.com)

Course .	Name of Course	CEUs	WW	S/S
<b>2019</b>				
NV19-270	Enabling real time mass flow based multivariable controls to reduce sludge handling costs in wastewater	1	X	
NV19-269	Anaerobic digestion enhancement through biocatalytic bioaugmentation: Improving digester performance	1	X	
NV19-268	Energy Savings and Sludge Reduction for Wastewater Lagoons	1	X	
NV19-267	Introducing ASME PTC13 – First Test Code to Compare all Technologies Equally	1	X	
NV19-266	Simplified, Energy Saving BNR for Small and Medium Size Municipalities	1	X	
NV19-265	Activated Sludge Process Control - Setting Targets	1	X	
NV19-264	Utilizing existing wastewater parameters to reduce overall spend on chemicals for struvite prevention	1	X	
NV19-263	Ammonia Removal and You	1	X	
NV19-262	The Value of Optimizing Sludge Retention Time	1	X	
NV19-261	Phosphorous (P); Where does it come from? Why remove it and how to remove it	1	X	
NV19-260	Take a Little More Off the Top: How you Can Optimize your Plant	1	X	
NV19-259	Treating Potato Processing Wastewater are No Small Potatoes	1	X	
NV19-258	Essential Headworks Planning	1	X	
NV19-257	MicroNiche Engineering: Low-Cost, Rapid Nitrogen Removal in Wastewater	1	X	
NV19-256	You sure you want a turbo?	1	X	
NV19-255	Songs can remind us to improve Clarifier performance	1	X	
NV19-254	Phosphorus Removal: Accumulibacter, Tetrasphaera, or Chemical Precipitation?	1	X	
NV19-253	Using Hydroxyl Radicals to Treat FOG & Odors and Prevent Corrosion	1	X	
NV19-252	Oxnard Replaces Magnesium Hydroxide with Ferrous Chloride for Gravity Interceptor Sulfide Control	1	X	
NV19-251	Utilizing Acoustic Inspection to Assess Sewer Conditions and Prioritize Maintenance in Sparks, NV	1	X	
NV19-250	Bio Augmentation 101- How Engineered Microbial Products are Designed to Eliminate H2S/Odors and FOG	1	X	
NV19-249	Spectral Absorbance Coefficient 254 Applications & Design to Reduce Maintenance and Improve Accuracy	1	X	
NV19-248	Techniques for Verifying Inline Chlorine & Turbidity Analyzers at Surface Water Treatment Plants	1	X	
NV19-247	Release Relief - Fixing 100 Year Old Dam Valves	1	X	
NV19-246	Digital Tools and Resources for NDOT's Stormwater Program	1	X	
NV19-245	Making sense of compliance for the Nevada Department of Transportation (NDOT) world	1	X	
NV19-244	Shifting the Mindset: Are You Ready to Sell Your Program for Funding?	1	X	
NV19-243	Active Shooter	1		X
NV19-242	Safety for water and sewer workers advancements in Trench safety and Raising MH to grade	1	X	
NV19-241	OPERATOR SURVIVAL IN A DIGITAL WORLD	1	X	
NV19-240	Reducing the Costs for WWTP Digester Clean-outs	1	X	
NV19-239	From Handheld Data Collector to Maintenance Manager	1	X	
NV19-238	Reducing Corrosion, Infiltration, Inflow, & Odors in Manholes using Advanced Techniques & Materials	1	X	
NV19-237	Process Control Automation for Nutrient Removal Efficiency	1	X	

NV19-236	Power System Reliability for your Water and Wastewater Facility	1	X
NV19-235	Electrical Power Quality Monitoring and Sub-Metering	1	X
NV19-234	Nitrate Reduction Through Well Design in Queen Creek, Arizona	1	X
NV19-233	Chemical Well Rehabilitation: Acid and Wishful Thinking are Not Enough	1	X
NV19-232	FOG Inspections - Step-By-Step Method for Conducting Effective FOG Inspections	1	X
NV19-231	A Comparison of Program Structures for FOG Hauler Accountability	1	X
NV19-230	Backflow Enclosures Their Proper Application	1	X
NV19-229	Las Vegas Valley Water District Backflow Retrofit Program Update	1	X
NV19-228	Development of a New Aeration Control Method for Membrane Bioreactors	1	X
NV19-227	Headloss, Velocity, & Fibrous Re-agglomeration Effects On Membrane Pre-Screening	1	X
NV19-226	Turning Lemons into Lemonade: Conversion of an Activated Sludge System to an EBPR System	1	X
NV19-225	Innovative Grit Removal System Solves Plant Maintenance Challenges at Chandler Airport WRF	1	X
NV19-224	Case Study- The Journey to Optimization at Barstow, California	1	X
NV19-223	Successes, opportunities, & lessons learned: digester gas ICE cogeneration system	1	X
NV19-222	Bypass Plants: Continuing Wastewater Service During Major Repairs	1	X
NV19-221	Microbial Sensor for Monitoring and Optimization of Wastewater Treatment Operations	1	X
NV19-220	Flexibility for Today, Innovation for Tomorrow. Innovations in Operations and Design	1	X
NV19-219	Beat Ultra-Low Phosphorus and Metals Targets with Reactive Filtration	1	X
NV19-218	What Does It Cost to Be a Good Neighbor? Lessons From the Top 5 Odor Programs	1	X
NV19-217	Costs and Effects of Phosphorus and Struvite on Biosolids Dewatering	1	X
NV19-216	Total Nitrogen Removal: How Low Can You Go?	1	X
NV19-215	Continuous Thermal Hydrolysis without Steam or Chemicals	1	X
NV19-214	Impact of Efficient Polymer Activation on Improving Sludge Thickening and Dewatering	1	X
NV19-213	Saving Energy and Money through Better Wastewater Treatment Plant Mixing	1	X
NV19-212	Achieving Ultra Low Effluent Nitrogen Limits at WRRFs: DON a Road Blocker	1	X
NV19-211	Finding the Sweet Spot: Centrifuge Commissioning and Start-up Journeys	1	X
NV19-210	Evaluating and Optimizing Clarifier Performance	1	X
NV19-209	Wastewater Characteristics and How They Influence Process	1	X
NV19-208	Emulsion Flocculant Handling, Use and Safety	1	X
NV19-207	Bio-Augmentation vs. Bio-Stimulation: What, When, Why, and How?	1	X
NV19-206	An overview of Lift Stations and the biological process needed for degradation and flow of F.O.G	1	X
NV19-205	Reverse 911 is vital communication during sewer emergencies.	1	X
NV19-204	Changes in wastewater projections due to drought and economic factors	1	X
NV19-203	Wastewater Collection Condition Assessment and Inspection	1	X
NV19-202	Choosing The Best Confined Space Gas Detector-Calibration & Bump Test Requiements for Gas Detectors	1	X
NV19-201	Why and how we clean sewer and storm systems	1	X
NV19-200	What you need to know about your high-pressure sewer hose.	1	X
NV19-199	Flow Metering in Large Collection Systems	1	X
NV19-198	Sewer Line Chemical Root Control	1	X

NV19-197	When to Line, When to Grout and When to do both!	1	X
NV19-196	The history of sewer cleaning	1	X
NV19-195	Manhole Rehabilitation: Five Quality Assurance Steps for a Successful Application	1	X
NV19-194	PIPELINE INSPECTION AND ACCEPTANCE TESTING	1	X
NV19-193	Assessment of Manhole Condition and Rehab Using 3D Technology	1	X
NV19-192	I&I Micro Detection	1	X
NV19-191	Safe Dig: Hydro Excavating Safety and Procedures	1	X
NV19-190	Tools to Manage Your WW Collection System - Condition Assessment and Rehabilitation	1	X
NV19-189	Practicing conservation of water when cleaning sewers.	1	X
NV19-188	Updates to Standards for Collection Systems and Lift Stations	1	X
NV19-187	IoT and AI are more than Alphabet Soup when it comes to Cleaning	1	X
NV19-186	Peer to Boss: The Toughest Transition	1	X
NV19-185	The Art of Business Etiquette and Manners	1	X
NV19-184	Building Trust at Work	1	X
NV19-183	Generations at Work	1	X
NV19-182	Practical Personality Preference	1	X
NV19-181	The Supervisor as Coach	1	X
NV19-180	Establishing Psychological Safety	1	X
NV19-179	Surface Water Filter System Optimization and Zero2Waste Solutions increase filter system efficiency	1	X
NV19-178	Hidden Valley Lake Community Services District Pilots Innovative Hexavalent Chromium Remediation Sys	1	X
NV19-177	Chemical Metering pumps and Accessories	1	X
NV19-176	Storage Tank Mixing and Distribution System Water Quality Improvements	1	X
NV19-175	Testing the Limits of Reverse Osmosis to Meet Regulations and Minimize Brine on a Budget	1	X
NV19-174	Status of Chlorate Regulation in US & Impact at Water Treatment Plants	1	X
NV19-173	Meeting Federal Regulations in a Surface Water Treatment Plant	1	X
NV19-172	A Technical Overview of Sodium Hypochlorite Systems – What makes the most sense for my system?	1	X
NV19-171	Understanding Disinfection	1	X
NV19-170	The ABC's of Advanced Processes for Potable Water Treatment - RO and UV/AOP	1	X
NV19-169	Smart Water Treatment – Pretreatment with Ionic Copper (EarthTec) Improves Quality of Raw Water	1	X
NV19-168	Ozone & Biological Active Filtration Design Considerations for Potable Water Treatment	1	X
NV19-167	Challenges and Update on the Lake Mead Intake No. 3 Projects	1	X
NV19-166	Advances in Disinfection: On-Site Hypochlorite Generation A Safe and Reliable Alternative	1	X
NV19-165	SPCC Plan Preparation Lessons Learned	1	X
NV19-164	THE PRETREATMENT APPROACH for STORMWATER TREATMENT SYSTEM OPERATORS	1	X
NV19-163	Changing the Paradigm- Oil Water Separator Challenges at Nellis AFB	1	X
NV19-162	The New Face of Stormwater Management	1	X
NV19-161	Incorporating LID into City Infrastructure	1	X
NV19-160	No Worries on a Rainy Day – ADOT's US 60 48th Street Storm Water Pump Station	1	X
NV19-159	Hydrology and Hydraulic Analysis for the Hollywood System Detention Basins	1	X

NV19-158	Dust and Mud: Water and Air quality construction compliance in a desert environment.	1	X
NV19-157	Innovation and New Technology in the World of Monitoring and Post-Construction BMPs	1	X
NV19-156	Stormwater Asset Management: Should My Program Be Utilizing It?	1	X
NV19-155	Updates and Innovation in Water Sector: Federal and Local Perspectives Part 2	1	X
NV19-154	Updates and Innovation in Water Sector: Federal and Local Perspectives Part 1	1	X
NV19-153	Storm Water Regulation Roundup	1	X
NV19-152	COMPLIANCE WITH THE NPDES UTILITY VAULT DISCHARGE PERMIT – A UTILITY’S EXPERIENCE	1	X
NV19-151	Confined Space Awareness Training	1	X
NV19-150	Trenching & Shoring Awareness and Safety	1	X
NV19-149	Active Shooter Response	1	X
NV19-148	Clearing the Air Around Gas Detection Technologies	1	X
NV19-147	Safety & Environmental Risk Management The Good, The Bad & The Ugly	1	X
NV19-146	The 10 Commandments of Safety	1	X
NV19-145	Ladder Safety	1	X
NV19-144	Safety Tips That Can Save Your Life	1	X
NV19-143	Designing for Safety Beyond Construction	1	X
NV19-142	Hazardous Materials Labeling and Storage: Compliance Requirements and Worker Training	1	X
NV19-141	Electrical Safety is like a slice of pie!	1	X
NV19-140	Domestic Terrorism Awareness - Part 2	1	X
NV19-139	Domestic Terrorism Awareness - Part 1	1	X
NV19-138	National Sanitation Foundation (NSF) Requirement and Solutions	1	X
NV19-137	TBD	1	X
NV19-136	Converting Reclaim Water & Shells to Agronomical Value by Chemical Addition	1	X
NV19-135	Free Chlorine Measurement --- No more Reagents!	1	X
NV19-134	Organics data to drive decisions for critical control of potable reuse treatment processes	1	X
NV19-133	UV Technology’s Role in Advanced Oxidation Processes as a Barrier Against Emerging Contaminants	1	X
NV19-132	Case Study: The 91st Avenue Biogas Conditioning Project	1	X
NV19-131	Effluent Water: Mitigating Sodium in Soils	1	X
NV19-130	How to Train Your Maintenance Engineer!	1	X
NV19-129	Flange and Valves Bolting Seminar	1	X
NV19-128	“Motor Circuit Analysis: Welcome to the 21st Century!”	1	X
NV19-127	Maintaining Your Automatic Control Valve	1	X
NV19-126	Digitalisation of Vibration based Condition Monitoring	1	X
NV19-125	– How to Keep your Pumps Running Efficiently	1	X
NV19-124	Improving Operational Outcomes with Reliability Centered Design	1	X
NV19-123	Zero to Hero. WWTP Non-compliance Rectified	1	X
NV19-122	Case Study: LA Boosts its Water Infrastructure Resilience, Prevents Corrosion, Minimizes Costs	1	X
NV19-121	Trenchless Pipeline Rehab Spot & Joint Repairs for Sewer, Water & Stormdrain Applications	1	X
NV19-120	Jeopardy: An Interactive Lesson on Repairing, Joining, and Tapping Pipe	1	X

NV19-119	Condition Assessment for Water & Wastewater Pipeline Systems	1	X
NV19-118	PCAT – NON-INVASIVE CONDITION ASSESSMENT FOR WATER & SEWER FORCE MAINS USING INVERSE TRANSDUCERS	1	X
NV19-117	Corrosion - Keeping the water in the pipe	1	X
NV19-116	The Evolution of Underground Sewer Repair Couplings	1	X
NV19-115	What Owners and Engineers should know to eliminate corrosion inside steel tanks	1	X
NV19-114	Solutions To Your Odor & Corrosion Problems In Your Underground Pipes and Structures	1	X
NV19-113	Confusions and Solutions with Specialty Coatings	1	X
NV19-112	Concrete for Water Containing Structures	1	X
NV19-111	Condition Based Maintenance and it's implementation in Water & Wastewater	1	X
NV19-110	Condition Assessment of Reinforced Concrete Structures	1	X
NV19-109	Evaluation of Two Headworks Screening Technologies – Maintenance vs Capture Rates	1	X
NV19-108	Implementing Elements of the TNI Standard: Strategies, Challenges and Lesson Learned for Mid-Size La	1	X
NV19-107	Jar Testing, When, How and Understanding the Results	1	X
NV19-106	2018 study of Legionella pneumophila in distribution water systems	1	X
NV19-105	Using Genomics™ to Better Understand the Effectiveness of Your Water Resource Recovery Facility	1	X
NV19-104	Quality Control Procedures for pH, DO, Chlorine, and Turbidity Analyses at In-house Laboratories	1	X
NV19-103	Corrosion: Lab and Field Monitoring Strategies	1	X
NV19-102	ABCs of VFDs	1	X
NV19-101	SCADA Reinvestment Trends	1	X
NV19-100	Electrical Safety is like a slice of pie!	1	X
NV19-099	Harmonics or Harmonica - Don't Blow It	1	X
NV19-098	Critical & Uninterruptible Power Systems– A Practical Approach	1	X
NV19-097	The UnSCADA: Do You Need An Expensive SCADA System?	1	X
NV19-096	Automated Metering Infrastructure Data Transmitting, Collecting and Utilizing	1	X
NV19-095	Aquifer Recharge Project at the San Juan-Chama DWTP - Construction and Demonstration Testing	1	X
NV19-094	Naturally-Filter Packed Water Well Installation: a Lemons-to-Lemonade Story	1	X
NV19-093	Best Practices of Water Well Rehabilitation from 800 Rehabs over 4 years	1	X
NV19-092	“Pursuing One Water: Insights from Planning a New Water Supply and Return Flow System”	1	X
NV19-091	Well Casing Inspection - Beyond the Video	1	X
NV19-090	Keys to Designing and Operating Wells With Optimum Efficiency	1	X
NV19-089	City of Phoenix ASR Well Operations and Data Tracking	1	X
NV19-088	EPA Pretreatment Update	1	X
NV19-087	Bridge Publications Facility of the Year for Pretreatment/Environmental Compliance	1	X
NV19-086	Reefer Madness- What is hype and What is Real in indoor Cannabis Cultivation operations	1	X
NV19-085	The Changing World of Pretreatment Part 2	1	X
NV19-084	The Changing World of Pretreatment Part 1	1	X
NV19-083	Federal Dental Amalgam Rule – How to Make It Work For You	1	X
NV19-082	FOG FSE Inventory - Risk-Based Prioritization Method	1	X

NV19-081	Condition Assessment of Grease Interceptors and Other Reinforced Concrete Structures	1	X
NV19-080	Real Time Monitoring: Costly and not worth the effort! REALLY?	1	X
NV19-079	Cradle to Grave: Improving Your FOG Program	1	X
NV19-078	Sampling and Flow Monitoring 101	1	X
NV19-077	Categorical Conundrums: Classification, Collaboration & Compliance	1	X
NV19-076	Industrial Pretreatment Implementation and Enforcement for POTWs Part 2	1	X
NV19-075	Industrial Pretreatment Implementation and Enforcement for POTWs Part 1	1	X
NV19-074	How Backflow Tester Ethics Can Damage Your Cross Connection Control Program	1	X
NV19-073	Mobile & Cloud Technology	1	X
NV19-072	Three's A Crowd: The Magic of 3rd Party Backflow Assembly Testing Revealed	1	X
NV19-071	Backflow Prevention Assembly Deterioration	1	X
NV19-070	Installation & Application of Backflow Preventers	1	X
NV19-069	Hydraulics & Backflow Prevention	1	X
NV19-068	Operating Principles of Cross Connection Control	1	X
NV19-067	VENETIAN HOTEL AND CASINO TOUR - ROBUST RECYCLING PROGRAM	2	X
NV19-066	VENETIAN HOTEL AND CASINO TOUR - ROBUST RECYCLING PROGRAM	2	X
NV19-065	HOOVER DAM	4	X
NV19-064	SPRINGS PRESERVE	4	X
NV19-063	NEVADA WATER & WW REGULATIONS UPDATE BY NDEP/NWEA	1	X
NV19-062	NASSCO LACP CERTIFICATION	3	X
NV19-061	NASSCO MACP CERTIFICATION	4	X
NV19-060	MS4 Compliance and Code Enforcement Inspector (MS4CCEI)	7	X
NV19-059	NASSCO PIPES Certification Assessment Program (2 days)	7	X
NV19-058	NASSCO PIPES Certification Assessment Program (2 days)	7	X
NV19-057	Math Made Easy	7	X
NV19-056	MS4 CCEI Re-Certification	3	X
NV19-055	NASSCO PACP Re-Certification	7	X

Course .	Name of Course	CEUs	WW	S/S
<b>2018</b>				
NV18-522	Proving the Biggest Can Also be the BEST!	1	X	
NV18-521	Drugs in the Workplace	1	X	
NV18-520	Anti-Leak Technology for Chemical Feed / Dosing Piping Systems and Equipment	1	X	
NV18-519	Solids Handling	1	X	
NV18-518	Wastewater Disinfection Management	1	X	
NV18-517	Take a Little More Off the Top: Small-Footprint Primary Rotating Belt Filter	1	X	
NV18-516	Beat Ultra-Low Phosphorus and Metals Targets with Reactive Filtration: How Citronelle, AL and Georgetown, CO consistently hit ug / L targets	1	X	
NV18-515	Aggressive Renewable / Sustainable Energy Programs in Pima County	1	X	

NV18-514	Anaerobic digestion enhancement through biocatalytic bioaugmentation increases volatile solids reduction and methane production. A Case Study Analysis.	1	X
NV18-513	Operational Analytics with Artificial Intelligence at Water Treatment Plants	1	X
NV18-512	Math Made Easy	1	X
NV18-511	One Dirty Water: Bridging the Organizational Gap	1	X
NV18-510	Fine Start! Primary Treatment Utilizing Fine Screens at the Headworks	1	X
NV18-509	Grit Happens! You Don't Know What You Are Missing	1	X
NV18-508	10 Years of Successful Enhanced Primary Treatment At Point Loma WWTP	1	X
NV18-507	Occurrence of Antibiotic Resistance in Wastewater Treatment Plants	1	X
NV18-506	Water Work	1	X
NV18-505	Solving Nutrients: How to biologically denitrify (and be phosphorus-ready)	1	X
NV18-504	Rare Earth Technology for Phosphorus Removal and Enhanced Sludge Properties	1	X
NV18-503	Closed Vessel Ultraviolet (UV) Technology For Municipal Wastewater	1	X
NV18-502	The "Test" of a Clarifier .... is in the "Testing"!	1	X
NV18-501	Centrifugal Pumps - Part 2	1	X
NV18-500	Centrifugal Pumps - Part 1	1	X
NV18-499	Pima County Addresses P Concerns	1	X
NV18-498	External Carbon for Wastewater Treatment	1	X
NV18-497	Safe Dig Hydro Excavating Safety and Procedures	1	X
NV18-496	Flow, Pressure and the care of rodder hose	1	X
NV18-495	3D Manhole Scanning and Rehab Assessment	1	X
NV18-494	BEST PRACTICES FOR PIPELINE INSTALLATION	1	X
NV18-493	How a novel plant-based degreaser & large-bubble mixer Reduced O&M	1	X
NV18-492	Pre-Treatment of WW Streams by DO Addition & Sewage Agitation	1	X
NV18-491	Using Hydroxyl Radicals to Treat Odors	1	X
NV18-490	Fats, Oils, and Grease Control through Up-Stream Treatment	1	X
NV18-489	Gravity Sewer Rehabilitation Design	1	X
NV18-488	Confusions and Solutions with Specialty Coatings	1	X
NV18-487	Golf Course Sewer Cleaning Solution	1	X
NV18-486	Reducing I&I through mainline CIPP lining, manhole lining and lateral repairs.	1	X
NV18-485	When One Plus One Equals Three - How Data Fusion Makes Life Easier	1	X
NV18-484	APPROPRIATE CLEANING METHODS FOR DIFFERENT SEWER PIPE MATERIALS	1	X
NV18-483	Vacuum Truck Dewatering Revolution - Water Recycling	1	X
NV18-482	Digital Side-Scanning Technology	1	X
NV18-481	Pumps 201	1	X
NV18-480	Choosing The Best Gas Detector / Calibration & Bump Test Requirments for Direct Reading Portable Gas Monitors	1	X
NV18-479	Lateral Solutions	1	X
NV18-478	INNOVATIVE OVERFLOW PREVENTION - Using Echos For Detection	1	X
NV18-477	Combination Machine Maintenance	1	X

NV18-476	Sewer cleaning vehicles with water recycling technology	1	X
NV18-475	BEST PRACTICES: Use, Care and Repair of High-Pressure Sewer Cleaning Hose	1	X
NV18-474	Types of Lift Stations & Associated Costs / A Case Study	1	X
NV18-473	Winning the War Against Wipes	1	X
NV18-472	On-Site Hypochlorite Generation: A Disinfection Alternative	1	X
NV18-471	Liquid Ionic Copper Offers 3-for-1 as Drinking Water Pre-Treatment	1	X
NV18-470	Pass on the Pepto, We have UV	1	X
NV18-469	REMOVAL OF PERFLUORINATED CHEMICALS (PFCs) FROM GROUNDWATER	1	X
NV18-468	Online Instrument for Raw-Water THM Precursor Analysis	1	X
NV18-467	Filtration at Its Finest	1	X
NV18-466	Use of Mixed Oxidants to Improve WQ in A Distribution System	1	X
NV18-465	Using Particle Counters w / Turbidimeters To Optimize Performance	1	X
NV18-464	Comparison of laser turbidity values to particle counts	1	X
NV18-463	Chemical Metering pump and accessories	1	X
NV18-462	Fundamentals of Disinfection 101	1	X
NV18-461	Hexavalent Chromium Remediation: Affordable and Reliable Cr(VI) Treatment	1	X
NV18-460	Techniques for Accurate Measurement of Low-level Turbidity Samples	1	X
NV18-459	Turbidity - History, Measurement, Current Technologies	1	X
NV18-458	What Do We Do With All This Corroding CMP Storm Drain Pipe?	1	X
NV18-457	Virginia Lake Water Quality Monitoring & Management Plan, Reno Nevada	1	X
NV18-456	Conducting Wet Weather Inspections in an Arid Environment	1	X
NV18-455	Water Sampling	1	X
NV18-454	Wait! Didn't We Already Do That?!! The Progressive Need To Promote SW Goals	1	X
NV18-453	The New Face of Stormwater Management	1	X
NV18-452	What Stormwater Certification Do I Need?	1	X
NV18-451	Making A Wet Subject A Hot Topic! Training Techniques That Motivate	1	X
NV18-450	Stormwater Management: It's Everyones Responsibility!	1	X
NV18-449	Options for Stormwater Rate Calculations	1	X
NV18-448	The Creation of NDOT's Stormwater Program	1	X
NV18-447	Stormwater Protection for Water Utilities	1	X
NV18-446	Improving Stormwater Runoff Quality Thru Asset Management	1	X
NV18-445	Tracing the Steps from Compliance Thru Post-Implementation	1	X
NV18-444	Fill 3 Needs With 1 BMP	1	X
NV18-443	WQ Management Plans & Associated Stormwater Treatment Devices	1	X
NV18-442	Safety Data Sheets: How To Safely Manage Your Chemical Inventory	1	X
NV18-441	The Balancing Act: How Cost, Quality & Schedule Impact Safety	1	X
NV18-440	How To Establish Internships At Your Utility	1	X
NV18-439	Internal Safety Auditing Program Development	1	X
NV18-438	Confined Space Awareness Training	1	X



NV18-437	Trenching & Shoring Awareness and Safety	1	X
NV18-436	Arc Flash Risk Assessments & Requirements In Electrical Safety Programs	1	X
NV18-435	Safety At The Work Place: Active Shooter Part 2	1	X
NV18-434	Safety At The Work Place: Active Shooter Part 1	1	X
NV18-433	Safety At The Work Place: Active Shooter Part 2	1	X
NV18-432	Safety At The Work Place: Active Shooter Part 1	1	X
NV18-431	Water Utility Service General Safety	1	X
NV18-430	OSHA Silica Rule	1	X
NV18-429	Choosing The Best Gas Detector / Calibration & Testing Requirments	1	X
NV18-428	Domestic Terrorism Awareness - Part 2	1	X
NV18-427	Domestic Terrorism Awareness - Part 1	1	X
NV18-426	Turbidity Meters for Determining Continuous Membrane Integrity in MBRs	1	X
NV18-425	Orange County's Ground Water Replenishment System	1	X
NV18-424	Increasing Influent Flows to GW Replenishment System - OCSD	1	X
NV18-423	Yuma Desalting Plant: Past, Present, and Future	1	X
NV18-422	Keep Calm & Conserve: Water conservation in an arid environment	1	X
NV18-421	Pipeline Challenges in Environmental Areas of Concern	1	X
NV18-420	The Framework for Potable Reuse in Arizona	1	X
NV18-419	Math Made Easy And Other Lies - Part 7 (Putting It All Together)	1	X
NV18-418	Math Made Easy And Other Lies - Part 6 (Dosing)	1	X
NV18-417	Math Made Easy And Other Lies - Part 5 (Pumping Horsepower)	1	X
NV18-416	Math Made Easy And Other Lies - Part 4 (Detention Times)	1	X
NV18-415	Math Made Easy And Other Lies - Part 3 (Flow Rates)	1	X
NV18-414	Math Made Easy and Other Lies - Part 2 (Volumes)	1	X
NV18-413	Math Made Easy And Other Lies - Part 1 (Areas)	1	X
NV18-412	Trenchless Pipeline Rehabilitation Spot & Joint Repairs for Sewer, Water & Storm Drain Applications	1	X
NV18-411	Reducing Corrosion, Infiltration, Inflow, & Odors in Manholes Using Advanced Techniques & Materials	1	X
NV18-410	Odor Control Scrubbers And Aeration Technologies For Sewer & Water Applications	1	X
NV18-409	Overview Of Trench Safety & Advancements In New Technology	1	X
NV18-408	Repairing, Joining and Tapping Pipe	1	X
NV18-407	Electrical Safety & Maintenance Per NFPA 70E	1	X
NV18-406	Ladder Safety: One Wrong Step Can Kill	1	X
NV18-405	Hydraulic Aeration And Odor Control	1	X
NV18-404	Condition Assessment & Asset Mgmt. Alternatives For Smaller Agencies	1	X
NV18-403	Managing Water Storage in Extreme Environments	1	X
NV18-402	What Owners & Engineers Should Know To Eliminate Corrosion Above The Water Line	1	X
NV18-401	GIS Utility Management for Local Governments	1	X
NV18-400	Reducing Inflow & Infiltration in Manholes & Vaults	1	X
NV18-399	Novel Corrosion-Resistant Manhole Construction Methods	1	X

NV18-398	Confusions and Solutions with Specialty Coatings	1	X
NV18-397	We Come From Down Under (Australia) With Solutions For Odor & Corrosion ProblemsStructures	1	X
NV18-396	Condition Assessment of Reinforced Concrete Structures	1	X
NV18-395	Overview of Classic & New State Of The Art Pipeline Rehabilitation Technologies	1	X
NV18-394	Cathodic Protection Of Multiple Interconnected Pipelines	1	X
NV18-393	The Best Tool In Your Tool Belt Is Your Cell Phone	1	X
NV18-392	O&M Manual Updates: How to optimize operations & maintenance	1	X
NV18-391	Building an In-House RCM Program: Lessons Learned	1	X
NV18-390	Who's In Control? Control Strategy & Maintenance Of Lift Stations	1	X
NV18-389	Submersible Lift Station Troubleshooting - Optimizing Run Time	1	X
NV18-388	Basics of Motor Testing: Cuz the Job You Save Could Be Your Own!	1	X
NV18-387	Basic Pumps	1	X
NV18-386	Understanding Common Laboratory Acronyms	1	X
NV18-385	Correlations between BOD5 and TOC in Wastewater	1	X
NV18-384	Legiolert: A Tool To Understand The Risk Of Legionnaires' In Water Systems	1	X
NV18-383	Microscopic Biological Surveys (MBS) And Why They Always Matter	1	X
NV18-382	Online amperometric chlorine analyzers - Do they work?	1	X
NV18-381	QC & Troubleshooting for pH, DO, Chlorine & Turbidity Analyses	1	X
NV18-380	Laboratory Turbidity: How to ensure accuracy and repeatability	1	X
NV18-379	Legally Defensible Laboratory Data	1	X
NV18-378	The Value of Hybrid Sensors for Water / Wastewater Management	1	X
NV18-377	Modelling Ammonia Based Aeration Control in Real Time with Online Instrumentation	1	X
NV18-376	Programmable Logic Controllers vs Dedicated Configurable Controllers in Water / WW Industry	1	X
NV18-375	Today's Critical Power Systems In Your Plant	1	X
NV18-374	Electrical Power Quality Monitoring and Sub-Metering	1	X
NV18-373	Power Distribution System Design Concepts for Arc Flash Hazard Reduction	1	X
NV18-372	Electrical Safety, Preventive Maintenance & NFPA 70E	1	X
NV18-371	Putting Thermal Imaging to Work for You	1	X
NV18-370	Form-Wound Motor Repair	1	X
NV18-369	Calibration of Process Automation Instruments	1	X
NV18-368	Monitoring & Reporting for Recharge Facilities in New Mexico	1	X
NV18-367	Slug Tests to Optimize Groundwater Well Design	1	X
NV18-366	Operating Data & Lessons Learned from Microvi Nitrate Removal System	1	X
NV18-365	Three Ps For Effective & Resilient Water Well Rehabilitation-Part 2	1	X
NV18-364	Three Ps For Effective & Resilient Water Well Rehabilitation-Part 1	1	X
NV18-363	How to Write the Perfect Water Well Redevelopment Specification	1	X
NV18-362	A Broken Recharge Facility, Angry Customers & A Constructed Solution	1	X
NV18-361	EPA Pretreatment Update	1	X
NV18-360	Compliance Issue for Cannabis Cultivation	1	X

NV18-359	"2017-A Vintage Year for Field Investigations"	1	X
NV18-358	Stone Brewery - An industrial brewing treatment plant overview	1	X
NV18-357	What's That Smell? Managing H2S	1	X
NV18-356	The Building Blocks of FOG, How to Implement a FOG Control Program	1	X
NV18-355	Industrial Bakeries, Cottage Food & Pretreatment : City of Phoenix	1	X
NV18-354	Pipeline Condition Assessment and Cleaning; Devil is in the Details City of De Soto, Kansas Raw Water Main	1	X
NV18-353	Air Valves: critical for proper system performance	1	X
NV18-352	The Big Payback: The Importance of Large Meter Analytics	1	X
NV18-351	EBMUD's Operational, Digital Transformation	1	X
NV18-350	Air In Pipes: Case Studies	1	X
NV18-349	Ice PIGGING: Cleaning Mains with Ice	1	X
NV18-348	Distribution System Maintenance	1	X
NV18-347	The Role of "Smart Tanks" in Distribution Water Quality Management	1	X
NV18-346	How the City of Elmhurst Attacked UFW	1	X
NV18-345	What is Happening in the world of AMI?	1	X
NV18-344	Understanding Water System Disinfection	1	X
NV18-343	Technology out of this world: Geospatial data	1	X
NV18-342	Life Cycle Cost Economics for Small Water Meter Replacement	1	X
NV18-341	Pre-Maintenance Evaluations - The First Step	1	X
NV18-340	WATER LOSS: Saving Water & Saving Capital: It's Worth It	1	X
NV18-339	Water System Resiliency During System Upset	1	X
NV18-338	Active Control of THM Levels in Drinking Water & Distribution Systems	1	X
NV18-337	Chloramine Residual Optimization and Management	1	X
NV18-336	Improving water system operations & customer service	1	X
NV18-335	Less Paper, More Insights	1	X
NV18-334	Connect and Operationalize Enterprise Data	1	X
NV18-333	Pressure Pipeline Rehabilitation Technology	1	X
NV18-332	Utility CIP Management	1	X
NV18-331	Water Distribution Field Management Optimization	1	X
NV18-330	Understanding Your Water Tank and It's Condition	1	X
NV18-329	Managing the monster of the Backflow Prevention Program	1	X
NV18-328	Las Vegas Water District Backflow Retrofit Program	1	X
NV18-327	Detector Assemblies on Fire Sprinkler Systems	1	X
NV18-326	Common Field Modifications & Their Effect On Approval	1	X
NV18-325	Repair or Replace? The Why & When	1	X
NV18-324	Troubleshooting Backflow Prevention Assemblies	1	X
NV18-323	Operating Principles of Cross Connection Control	1	X
NV18-322	TOUR - VENETIAN HOTEL AND CASINO TOUR - ROBUST RECYCLING PROGRAM		X
NV18-321	TOUR - SPRINGS PRESERVE		X

NV18-320	TOUR - HOOVER DAM	X
NV18-319	WORKSHOP - NEVADA WATER & WW OPERATOR CERTIFICATION PROGRAM REVIEW UPDATES	X
NV18-318	WORKSHOP - NASSCO LACP CERTIFICATION	X
NV18-317	WORKSHOP - NASSCO MACP CERTIFICATION	X
NV18-316	WORKSHOP - MS4 Compliance and Code Enforcement Inspector (MS4CCEI)	X
NV18-315	WORKSHOP - OSHA 10-Hour Construction Course (1.5 days)	X
NV18-314	WORKSHOP - NASSCO PIPES Certification Assessment Program (2 days)	X
NV18-313	WORKSHOP - MS4 CCEI Re-Certification	X
NV18-312	WORKSHOP - NASSCO PACP Re-Certification	X

Course .	Name of Course	CEUs	WW	S/S
<b>2017</b>				
NV17-99	The Many Ways to Ruin Lab Results from Sampling to Analysis	1	X	
NV17-98	Transforming Data Into Knowledge	1	X	
NV17-97	"How GPS Affects Customer Service - More Than You Thought!"	1	X	
NV17-96	The Dead-End Danger Zone	1	X	
NV17-95	Operation of an Effective Cross-Connection Control Program	1	X	
NV17-344	MS4 COMPLIANCE & CODE ENFORCEMENT INSPECTOR	10	X	
NV17-343	LACP CERTIFICATION	4	X	
NV17-342	MS4 COMPLIANCE & CODE ENFORCEMENT INSPECTOR	10	X	
NV17-341	NUTRIENT ANALYSIS IN WASTEWATER	4	X	
NV17-340	MONOCHLORAMINATION DISINFECTION	10	X	
NV17-339	CCTV OPERATOR ADVANCEMENT	7	X	
NV17-338	OSHA CLASS II ASBESTOS WORKER	7	X	
NV17-337	PACP PIPES CERTIFICATION ASSESSMENT PROGRAME	1	X	
NV17-336	LAB SKILLS FOR WATER / WASTEWATER OPERATORS	1	X	
NV17-335	PRACTICAL CHLORINE ANALYSIS	1	X	
NV17-334	CCTV OPERATOR ADVANCEMENT	1	X	
NV17-333	MACHINE GUARDING: HOW TO PROTECT WORKERS	7		X
NV17-332	PACP PIPES CERTIFICATION ASSESSMENT PROGRAM	14	X	
NV17-331	PACP RE-CERTIFICATION	7	X	
NV17-330	Venetian Tour - Robust Recycling Program	2	X	
NV17-329	Hoover Dam & Bridge Tour (includes Water & Wastewater Plants)	7	X	
NV17-328	What we find under the Microscope in various wastewater treatment	1	X	
NV17-327	Wastewater Lagoon Management	1	X	
NV17-326	Wastewater Disinfection Management	1	X	
NV17-325	W/WWTP Safety and Accessibility	1		X
NV17-324	Value Added by Spending Extra Time and Effort to Properly Commission New Wastewater Facilities.	1	X	
NV17-323	THK Thickening Technology Innovation for the Purpose of Biosolids Sludge Thickening	1	X	

NV17-322	The Science of Pipe Cleaning	1	X
NV17-321	The BIG Questions for Activated Sludge Process Control Answered	1	X
NV17-320	Solids Reduction:Wastewater	1	X
NV17-319	Radical Odor Control for a Pump Station and several nearby manholes	1	X
NV17-318	Process Optimization Using Ammonia Based Aeration Control and Real Time Solids Retention Time Control	1	X
NV17-317	Operations and Algorithms - Why they don't mix	1	X
NV17-316	Non Centralized Waste Water Treatment	1	X
NV17-315	Knowledge Capture: Creating Computer Based Training	1	X
NV17-314	Enhanced phosphorus removal and recovery and sludge dewaterability optimization through brushite and struvite	1	X
NV17-313	Digestion and You	1	X
NV17-312	De-Centralized Wastewater Treatment.Onsite Wastewater Operations and Maintenance	1	X
NV17-311	Choosing the best Gas Detector/Calibration & Bump Test Requirements	1	X
NV17-310	Bio P 101	1	X
NV17-309	Ammonia Based Aeration Control for Energy Conservation & Chloramination Disinfection	1	X
NV17-308	21st Century Odor Control	1	X
NV17-307	Improving Sanitary Sewer Collection System O & M	1	X
NV17-306	The Only Universal Sewer Repair Coupling	1	X
NV17-305	Economical and ecological technology of Sewer Cleaning Vehicles with Water Recycling System	1	X
NV17-304	Compliance and Enforcement Update for the California Sanitary Sewer System Waste Discharge Requirements (SSS WDRs)	1	X
NV17-303	Technologies for Collection System Asset Management	1	X
NV17-302	Forecasting Remaining Useful Life of Large Interceptors	1	X
NV17-301	DBP Precursor and Metal (As, Fe, Mn) Removal in Drinking Water	1	X
NV17-300	Hazardous Materials Labeling Methods. Do you know there is more than One?	1	X
NV17-299	Condition Assessment of Reinforced Concrete Structures	1	X
NV17-298	Non Centralized Waste Water Treatment	1	X
NV17-297	Overview of trench safety and advancements in new technology	1	X
NV17-296	Trenchless Pipeline Rehabilitation Spot & Joint Repairs for Sewer, Water & Storm Drain Applications	1	X
NV17-295	The Many Ways to Ruin Lab Results from Sampling to Analysis	1	X
NV17-294	The Dead-End Danger Zone	1	X
NV17-293	"How GPS Affects Customer Service - More Than You Thought!"	1	X
NV17-292	OSHA Class II Asbestos Worker	1	X
NV17-291	Operation of an Effective Cross-Connection Control Program	1	X
NV17-290	Lab Skills for Water and Wastewater Operators	1	X
NV17-289	Nutrient Analysis & Control	1	X
NV17-288	Monochloramination Disinfection	1	X
NV17-287	Practical Chlorine Analysis- Water and Wastewater	1	X
NV17-286	Machine Guarding: How to protect workers when maintaining or working with pumps and motors	1	X
NV17-285	Training to apply NASSCO's Infrastructure Condition Assessment Programs, PACP/MACP/LACP	1	X
NV17-284	Tri State MS4 Compliance & Code Enforcement Inspector	1	X

NV17-283	CCTV Operator Advancement – Understanding and Maintaining Equipment	1	X
NV17-282	AWWA D101 Standard “Inspection of Water Tanks and Related Facilities”	1	X
NV17-281	Fire Hydrant Maintenance and Installation	1	X
NV17-280	Impacts of Brine Loading on Biological Treatment of Wastewaters in Treatment Plants	1	X
NV17-279	Centrifuge Operation and Maintenance - Best Practices and Common Issues	1	X
NV17-278	Improvement of Anaerobic Sludge Digestion using Biological Enhancement Technologies	1	X
NV17-277	Anaerobic Digestion 101	1	X
NV17-276	Come One, Come All, Come Watch Me Settle Your Sludge (faster)	1	X
NV17-275	Optimizing Clarifiers: What Have We Learned?	1	X
NV17-274	Carbon Management at Wastewater Treatment Plants and Impacts on Public Health	1	X
NV17-273	Rare Earth Technology for Low-Level P Removal and Enhanced Sludge Properties	1	X
NV17-272	Phosphorus Removal and Recovery 101	1	X
NV17-271	The Four Step Micro Exam Part 1 & Part 2	1	X
NV17-270	Choosing the best Gas Detector/Calibration & Bump Test Requirements	1	X
NV17-269	City Cleaning Sewer like a Contractor	1	X
NV17-268	Safe Dig Hydro Excavating Safety and Procedures.	1	X
NV17-267	Air Movement and The How and Why It Works	1	X
NV17-266	Fundamentals of Waterjets in Controlled Rotation Nozzles	1	X
NV17-265	Is it possible to clean and camera your lines in one pass, find out here!	1	X
NV17-264	Air Valves: for Flow Efficiency and Surge Protection	1	X
NV17-263	Comparing Grinder Pump and STEP Maintenance Costs	1	X
NV17-262	The Dreaded Flushables	1	X
NV17-261	PipePatch Lateral Seal system-LIVE Demonstration	1	X
NV17-260	Reducing Infiltration through Lateral Lining	1	X
NV17-259	Sewer Line Chemical Root Control, Inc.	1	X
NV17-258	Sewers Can Speak - Can You Hear Them?	1	X
NV17-257	Use of New age waterborne epoxy modified mortars in concrete coating applications	1	X
NV17-256	Coatings and Linings for Highly Corrosive Environments	1	X
NV17-255	3D Wireless Manhole Scanning	1	X
NV17-254	Using Acoustic Inspection to Prioritize Sewer Cleaning	1	X
NV17-253	Sewer Cleaning Vehicles with Water Recycling System Technology	1	X
NV17-252	Best Practices for Reducing Sanitary Sewer Overflows (SSOs)	1	X
NV17-251	Building your infrastructure to last for Centuries! Is it possible?	1	X
NV17-250	Hexavalent Chromium in Drinking Water Systems, Potential Changes in Regulations and Treatment Options	1	X
NV17-249	Using Lab Charge Measurement To Determine Optimum Coagulant Dose	1	X
NV17-248	On-line chlorine and pH analyzers - proper mounting, calibration and maintenance	1	X
NV17-247	Chemistry of Chlorine and Chlorine Monitoring	1	X
NV17-246	Proper Techniques for the Accurate Measurement of Low-level Turbidity Samples	1	X
NV17-245	Water Clarity/Algae Management	1	X

NV17-244	Novel (EPA Approved) Turbidity Measurement Technology Addresses Drinking Water Plant Operational Challenges	1	X
NV17-243	Compliance of EPA Lead and Copper Rule in Drinking Water	1	X
NV17-242	Cyanobacteria-The Good, The Bad and The Ugly	1	X
NV17-241	Free Chlorine Measurement - The EASY WAY! The EPA WAY!	1	X
NV17-240	Disinfection/Dosing Math	1	X
NV17-239	Real-time Multi-stream Hexavalent Cr(VI) Monitor Validates RCOF Treatment Process Piloted at California Water Utility	1	X
NV17-238	Chemical Feed Systems, Accessories	1	X
NV17-237	Solutions for Water Quality Issues in Your Water Tank	1	X
NV17-236	Stormwater Management & Special Events Permits in the Las Vegas Valley	1	X
NV17-235	Spill Response – Catch It, Flush it or Let it Go	1	X
NV17-234	Understanding Stormwater O & M	1	X
NV17-233	Certified Stormwater Compliance Technician	1	X
NV17-232	Stormwater Utility Formation	1	X
NV17-231	LID BMP Investigation and Maintenance- A Practical Approach	1	X
NV17-230	What does Green Infrastructure mean in the dry desert?	1	X
NV17-229	Stormwater Management in Small Urban Communities	1	X
NV17-228	Using Students to Implement Non-Structural and Structural BMPs to Meet MS4 Permit Requirements.	1	X
NV17-227	Stormwater Engagement - The Magnificent Seven Ways to Increase Compliance	1	X
NV17-226	Collaboration and the MS4 Watershed Based Permit	1	X
NV17-225	The Balancing Act: How Cost, Quality and Schedule Impact Safety	1	X
NV17-224	Confined Space Rescue Requirements: "Knowing How To Get Out Before You Go In".	1	X
NV17-223	Chlorine Gas Handling and Safe Use	1	X
NV17-222	Someone is Swimming in Your Tank... How safe are they and YOU??	1	X
NV17-221	2018 NFPA70E anticipated Changes	1	X
NV17-220	Facility Security / Count Terrorism Protocols Part 2	1	X
NV17-219	Facility Security / Count Terrorism Protocols Part 1	1	X
NV17-218	Trenching & Excavation Awareness Training Part 2	1	X
NV17-217	Trenching & Excavation Awareness Training Part 1	1	X
NV17-216	Arc Flash Safety and Prevention	1	X
NV17-215	Choosing the best Gas Detector/Calibration & Bump Test Requirements	1	X
NV17-214	OSHA Inspections Your Rights and Responsibilities	1	X
NV17-213	Gas Monitors Today - What's New and How to Stay Safe	1	X
NV17-212	W/WWTP Safety and Accessibility	1	X
NV17-211	How Our Nation's Largest Power Plant Cools Itself'	1	X
NV17-210	Wetlands in the Desert? The Tres Rios Story	1	X
NV17-209	Unique Batch-Style Membrane Bioreactor Allows Municipality to Reuse Their Wastewater, Meet Low Total Nitrogen Limits, and Increase Capacity Using Existing Basins	1	X
NV17-208	PONDS, CATFISH, CRAWDADS, & YOUR AQUARIUM – WHAT DO THEY HAVE IN COMMON?	1	X
NV17-207	Tertiary Free Chlorine Disinfection Demonstration at the City of Brentwood Wastewater Treatment Plant	1	X

NV17-206	Effluent Water: Mitigating Sodium in Soils	1	X
NV17-205	Real Time Online Water Quality Monitoring	1	X
NV17-204	Math Made Easy	1	X
NV17-203	Vibration Monitoring in Water and Wastewater	1	X
NV17-202	Automatic Control Valves – Operation, Applications, & Maintenance	1	X
NV17-201	Hydraulic Aeration and Odor Control	1	X
NV17-200	Submersible Lift Station Troubleshooting- optimizing performance	1	X
NV17-199	Advances in Air lift Technology: Water/Wastewater Tank Mixing & Wastewater Pre-Treatment	1	X
NV17-198	Connecting Data to your Assets – An Overview of Current and Future Trends	1	X
NV17-197	Reliability Centered Maintenance, a new look into Asset Management	1	X
NV17-196	Asbestos Basics for Water and Sewer workers	1	X
NV17-195	Choosing the best Gas Detector/Calibration & Bump Test Requirements	1	X
NV17-194	ADA and Treatment Plants: The Good, The Bad, The Ugly	1	X
NV17-193	Building your infrastructure to last for Centuries! Is it possible?	1	X
NV17-192	Condition Assessment of Reinforced Concrete Structures	1	X
NV17-191	Retrofitting Older Concrete Tanks	1	X
NV17-190	Someone is Swimming in Your Tank...How safe are they and YOU??	1	X
NV17-189	Reducing Corrosion, Infiltration, Inflow, & Odors in Manholes using Advanced Techniques & Materials	1	X
NV17-188	Using an iterative incremental approach to implementing maintenance management systems	1	X
NV17-187	Overview of odor control scrubbers and aeration technologies for sewer & water applications	1	X
NV17-186	Confusions and Solutions with Specialty Coatings	1	X
NV17-185	Lg. Dia. PVC Gravity W & WW, Sliplining	1	X
NV17-184	Who's in Control.. Control strategy and maintenance of lift stations	1	X
NV17-183	Basic Pumps	1	X
NV17-182	Total Kjeldahl Nitrogen Colorimetric Testing for Discrete and Segmented Flow Analyzers	1	X
NV17-181	Using LIMS to Document Key QC Practices for Microbiological Analyses	1	X
NV17-180	Troubleshooting pH, Dissolved Oxygen, Chlorine (DPD method), and Turbidity Analyses	1	X
NV17-179	Nuisance Water Source Determination	1	X
NV17-178	How to Use Particle Counters in Conjunction with Turbidimeters to Better Understand and Optimize Coagulation and Filtration Performance	1	X
NV17-177	An enzymatic Method for the Detection of L. pneumophila in Potable and Non-Potable Water	1	X
NV17-176	Collecting Proper Environmental Water and Wastewater Samples: The Do's and Don'ts	1	X
NV17-175	Choosing the best Gas Detector/Calibration & Bump Test Requirements	1	X
NV17-174	“What is 3 Minutes of Motor Testing Worth to You?”	1	X
NV17-173	The Ups and Downs of Implementing a Successful AMI project	1	X
NV17-172	AFC vs 18 pulse vfd	1	X
NV17-171	Staying Ahead and Aware of the Condition of your Sewer	1	X
NV17-170	Automation Techniques for un-manned stations	1	X
NV17-169	NFPA 70B What are the best Maintenance Practices on Electrical Systems	1	X



NV17-168	Online Low-Level THM detection in GWR Wastewater	1	X
NV17-167	Implementation of Managed Aquifer Recharge Projects in New Mexico	1	X
NV17-166	NMR and conventional borehole geophysics Case Histories in ground water development and sustainability	1	X
NV17-165	Industrial-Use Well Installation using the Dual Rotary Pull-Back Technique	1	X
NV17-164	Cost-Effective Well Redevelopment	1	X
NV17-163	ASR Well Installation - Siting, Feasibility, Design, and Installation	1	X
NV17-162	Pretreatment Program Enforcement and Program Errors Impacting Enforcement	1	X
NV17-161	EPA Pretreatment Updates	1	X
NV17-160	Coming into Compliance	1	X
NV17-159	Safety in Pre-Treatment Inspection and Sampling	1	X
NV17-158	New Regulations that Challenge Water and Wastewater Agencies	1	X
NV17-157	It Matters How You Scoop the Goop!: What You Can Do to Ensure the Lab Receives a Valid Sample	1	X
NV17-156	Transforming Data Into Knowledge	1	X
NV17-155	Hydrant Flushing to Prevent Water Hammer - Reduce Water Main Breaks	1	X
NV17-154	“Live View” Water Main Inspections	1	X
NV17-153	How Automated Meter Reading Systems Can Garner Grant Money via Conservation Tools	1	X
NV17-152	Things An Operator Should Know About Their Certification	1	X
NV17-151	Advancing Fixed Networks (AMI)	1	X
NV17-150	Pumps 101	1	X
NV17-149	The Surge Phenomenon	1	X
NV17-148	Issues and Challenges in Water Demand Metering	1	X
NV17-147	Water Service Pipe Materials - Many Options	1	X
NV17-146	Approved Products Plant Tour	1	X
NV17-145	Delivery of Water Distribution Improvements	1	X
NV17-144	Water Tank Issues and Sustainable Asset Management	1	X
NV17-143	Assessments as Treatment Techniques -- Drilling Down	1	X
NV17-142	Portable Parallel Analysis as a Data Source for Distribution System Water Quality Monitoring	1	X
NV17-141	Smart Tank: Turning Water Storage Tanks into Active Water Treatment Systems	1	X
NV17-140	The Development of Effective Water Distribution O&M Programs	1	X
NV17-139	The Use of Innovative Inspection Technologies to Assess and Prioritize Rehabilitation for Water Pipeline Infrastructure	1	X
NV17-138	Reclaimed Water Tester Training	1	X
NV17-137	Reclaim water Dye Test	1	X
NV17-136	Development Challenges With Backflow Prevention	1	X
NV17-135	Backflow Prevention Assembly Approval Process	1	X
NV17-134	Maintenance & Repair of Backflow Prevention Assemblies	1	X
NV17-133	Testing & Troubleshooting Backflow Prevention Assemblies	1	X
NV17-132	Basic Operating Principles of Cross Connection Control	1	X
NV17-131	Non Centralized Waste Water Treatment	1	X
NV17-130	Wastewater Disinfection Management	1	X

NV17-129	Value Added by Spending Extra Time and Effort to Properly Commission New Wastewater Facilities.	1	X
NV17-128	Radical Odor Control for a Pump Station and several nearby manholes	1	X
NV17-127	21st Century Odor Control	1	X
NV17-126	Operations and Algorithms - Why they don't mix	1	X
NV17-125	W/WWTP Safety and Accessibility	1	X
NV17-124	Centrifuge Operation and Maintenance - Best Practices and Common Issues	1	X
NV17-123	Real Time Online Water Quality Monitoring	1	X
NV17-122	Enhanced phosphorus removal and recovery and sludge dewaterability optimization through brushite and struvite	1	X
NV17-121	Digestion and You	1	X
NV17-120	Bio P 101	1	X
NV17-119	Knowledge Capture: Creating Computer Based Training	1	X
NV17-118	Process Optimization Using Ammonia Based Aeration Control and Real Time Solids Retention Time Control	1	X
NV17-117	Ammonia Based Aeration Control for Energy Conservation & Chloramination Disinfection	1	X
NV17-116	Cyanobacteria-The Good, The Bad and The Ugly	1	X
NV17-115	The Science of Pipe Cleaning	1	X
NV17-114	Wastewater Lagoon Management	1	X
NV17-113	Solids Reduction:Wastewater	1	X
NV17-112	De-Centralized Wastewater Treatment.Onsite Wastewater Operations and Maintenance	1	X
NV17-111	THK Thickening Technology Innovation for the Purpose of Biosolids Sludge Thickening	1	X
NV17-110	The Only Universal Sewer Repair Coupling	1	X
NV17-109	Compliance and Enforcement Update for the California Sanitary Sewer System Waste Discharge Requirements (SSS WDRs)	1	X
NV17-108	Improving Sanitary Sewer Collection System O & M	1	X
NV17-107	Technologies for Collection System Asset Management	1	X
NV17-106	Forecasting Remaining Useful Life of Large Interceptors	1	X
NV17-105	DBP Precursor and Metal (As, Fe, Mn) Removal in Drinking Water	1	X
NV17-104	Hazardous Materials Labeling Methods. Do you know there is more than One?	1	X
NV17-103	Condition Assessment of Reinforced Concrete Structures	1	X
NV17-102	Voluntary Protection Programs (VPP)	1	X
NV17-101	Overview of trench safety and advancements in new technology	1	X
NV17-100	Trenchless Pipeline Rehabilitation Spot & Joint Repairs for Sewer, Water & Storm Drain Applications	1	X

Course .	Name of Course	CEUs	WW	S/S
<b>2016</b>				
NV16-99	Constructing a reliability centered maintenance program	1		
NV16-98	Water tank design, construction and Maintenance - Part 2	1		
NV16-97	Water tank design, construction and Maintenance - Part 1	1		
NV16-96	CA Water crisis & possible solutions	1		
NV16-95	Financing options for Water infrastructure projects	1		
NV16-94	Fire Hydrant, Pipe & Valve Repair without shutdown	1		

NV16-93	Solutions for the water quality issues in water tanks	1
NV16-92	Retrofitting older concrete tanks	1
NV16-91	Water System Security & Situational Awareness	1
NV16-90	Flow Measurement Thechnology	1
NV16-89	AMI - Selection & Deployment Through Proven Methodology	1
NV16-88	Operation of an effective CCC program	1
NV16-87	Reclaimed water, cross connection/backflow protection	1
NV16-86	Backflow prevention assembly 5: Repair steps & techniques, finale	1
NV16-85	Backflow prevention assembly 4: Repair steps & techniques, continued	1
NV16-84	Backflow prevention assembly 3: Repair steps & techniques	1
NV16-83	Backflow prevention assembly 2: Trouble shooting & testing	1
NV16-82	Backflow prevention assembly 1: Basic operating principles	1
NV16-81	Water treatment plant solves membrane tank controls integrity problems	1
NV16-80	Reagentless free chlorine analysis tank controls	1
NV16-79	The secrets of a successful software upgrade	1
NV16-78	Chemical metering pumps, accessories, & systems	1
NV16-77	Dumb water storage tanks into active water treatment systems	1
NV16-76	LV Race to construct a one of a kind pump station	1
NV16-75	UV254 Design to Reduce Maintenance & Improve Accuracy	1
NV16-74	Filaments an the Challenge to Control	1
NV16-73	The 4-Step Micro Exam	1
NV16-72	Meeting Carbon Needs for Nutrient Removal	1
NV16-71	Advanced Concepts in Nitrogen - Part 2	1
NV16-70	Advanced Concepts in Nitrogen - Part 1	1
NV16-69	Ultraviolet Disinfection Principles	1
NV16-68	Aeration 101	1
NV16-67	Flagger Training - Safety in the Streets	4
NV16-66	LAB Skills for Water Operators	4
NV16-65	NASSCO LACP Certification	4
NV16-64	NASSCO MACP Certification	4
NV16-63	MS4 Compliance & Code Enforcement Inspector (1.5 day class)	12
NV16-62	Hazardous Materials & Emergency Response	4
NV16-61	Nutrient Analysis in Wastewater	4
NV16-60	Nitrofication in the Distribution System	4
NV16-59	Choloramination Disinfection in Drinking water	4
NV16-58	Excavation Safety Competent Person	8
NV16-57	OSHA Class II Asbestos Worker	8
NV16-56	Introduction to Flow Monitoring	4
NV16-55	Wastewater Analysis II	4

NV16-54	Wastewater Analysis I	4	
NV16-53	Analysis of Corrosion Control Parameters	4	
NV16-52	Distribution System Monitoring	4	
NV16-51	Confined Space Self-Rescue & Non-entry Rescue	8	
NV16-50	Hazwoper Annual Refresher	8	
NV16-49	NASSCO PACP Class - 2 days	16	
NV16-48	NASSCO PACP Class - 1 day	8	
NV16-257	Evaluation of automatic chemical phosphorous removal systems	1	X
NV16-256	Safety, accuracy, and electrical condition monitoring	1	X
NV16-255	Choosing the best confined space gas detector	1	X
NV16-254	How to conduct wet weather inspections	1	X
NV16-253	Hazardous material labeling. Is there more than one?	1	X
NV16-252	UV-Cure Sectional Lining	1	X
NV16-251	Acoustic inspections of sanitary sewer lines	1	X
NV16-250	Sewer system maintenance: Challenges and solutions	1	X
NV16-249	Drugs in the workplace	1	X
NV16-248	Bio-Augmentation vs. Bio-stimulation	1	X
NV16-247	Integrate root management	1	X
NV16-246	Combination machine maintenance	1	X
NV16-245	The next wave of analytical tools for cost and risk control	1	X
NV16-244	Basics for Repair: Clamps & Couplings	1	X
NV16-243	Collection System: systematic cleaning program	1	X
NV16-242	Reducing inflow into manholes & valve vaults	1	X
NV16-241	overview of trenchless pipelining technologies	1	X
NV16-240	Planning for district metered areas	1	X
NV16-239	THM Control using a simple floating spray nozzle system	1	X
NV16-238	Activated sludge process control	1	X
NV16-237	Adapting an MBR for 5% Flow	1	X
NV16-236	River Mountain Water Treatment Facility (RMWTF) Tour	4	X
NV16-235	CCWRD Tour	4	X
NV16-234	Venetian Tour	4	X
NV16-233	Venetian Tour	4	X
NV16-232	Hover Dam & Bridge Tour	8	X
NV16-231	EPA Colorimetric testing for nitrate plus nitrite	1	X
NV16-230	Laboratory waste management A to Z	1	X
NV16-229	Innovative method for testing indicator Bacteria - Wastewater and reuse water	1	X
NV16-228	Water and wastewater process control data storage and repair	1	X
NV16-227	Waterborne protozoan pathogens	1	X
NV16-226	Online THM monitoring and a change in source water quality	1	X

NV16-225	Laboratory reporting limits and detection limits	1	X
NV16-224	Part 7 (Putting it All Together)	1	X
NV16-223	Part 6 (Dosing)	1	X
NV16-222	Part 5 (Pumping Horsepower)	1	X
NV16-221	Part 4 (Detention Times)	1	X
NV16-220	Part 3 (Flow Rates)	1	X
NV16-219	Part 2 (Volumes)	1	X
NV16-218	Part 1 (areas)	1	X
NV16-217	What's so complicated - It all flows downhill	1	X
NV16-216	Date driven collection system inspection and renewal program	1	X
NV16-215	Smell Ya Later: 39th avenue interceptor odor study	1	X
NV16-214	City of Santa Barbara - Update on year 4 of a 5 year consent decree	1	X
NV16-213	Sewer collection system programs: successes and challenges	1	X
NV16-212	35 Years in the collections wastewater industry	1	X
NV16-211	Community H2O harvesting, the missing element	1	X
NV16-210	Future water reuse operators: Part water, part wastewater	1	X
NV16-209	Blending reclaimed water for direct potable reuse	1	X
NV16-208	Cellular public carrier networks for your AMI	1	X
NV16-207	Butts to Watts - cigarette waste recycling	1	X
NV16-206	What do we need to know about Geochmistry and GWR?	1	X
NV16-205	Title 22 treatment system for small WWTPs	1	X
NV16-204	Overcoming challenges in pipeline bridge crossing design	1	X
NV16-203	Water tank asset management: A proactive alternative	1	X
NV16-202	New leak detection technology using NSF certified helium	1	X
NV16-201	Call before you mail	1	X
NV16-200	Being smart about smart metering	1	X
NV16-199	Active control of THM levels in finished water: A case study	1	X
NV16-198	Smart metering option for small and medium utilities	1	X
NV16-197	Online THM monitory & A change in source water quality	1	X
NV16-196	Traces and mixing models in surface waters: a review	1	X
NV16-195	QMRA and sustainability for potable reuse	1	X
NV16-194	Project Impossible : An under water chlorine solution line	1	X
NV16-193	CAP - Providing reliable service in challenging times	1	X
NV16-192	SAC 254	1	X
NV16-191	Water flouridation history - optima, MCL, and control ranges	1	X
NV16-190	GW Recharge - siting, design, operation, and enhancement	1	X
NV16-189	Analysis of subsidence and recharge in Phoenix using inSASR	1	X
NV16-188	Water well design: A life-cycle perspective	1	X
NV16-187	Water well rehabilitation - the culprits and best practices	1	X

NV16-186	Well Efficency - calculation and cost impliations	1	X
NV16-185	Groundwater well development and rehabilitation - Part 2	1	X
NV16-184	Groundwater well development and rehabilitation - Part 1	1	X
NV16-183	Odor control methods and solutions for water and sewer applications	1	X
NV16-182	Structural coatings for manhole and large diameter pipelines	1	X
NV16-181	Ladder Safety: One wrong step can kill	1	X
NV16-180	Confined space safety gas detectors for water and wastewater	1	X
NV16-179	Lockout tagout awareness	1	X
NV16-178	Water and wastewater treatment plant safety and accessibility	1	X
NV16-177	Asbestors basics for water and sewer workers	1	X
NV16-176	NDOT's Stormwater program	1	X
NV16-175	NDEP Stormwater inspections on public works	1	X
NV16-174	NDEP Stormwater circuit rider program	1	X
NV16-173	NDEP Stormwater overview	1	X
NV16-172	Methods of pipe repair	1	X
NV16-171	Advanced uses of AMI networks	1	X
NV16-170	Ice Pigging: an innovation method for cleaning mains	1	X
NV16-169	Air valves: for flow efficiency and surge protection	1	X
NV16-168	Water service pope materials - many options	1	X
NV16-167	History and current uses of metalized zink coatings in DIP	1	X
NV16-166	Corrosion and its control for ductile iron pipe	1	X
NV16-165	Terrorism within	1	X
NV16-164	Trenching & excavation awareness training	1	X
NV16-163	Arc flash safety & prevention	1	X
NV16-162	Internal audit process: the unexamined plant is not worth operating	1	X
NV16-161	NFPA 70e: Qualified workers and arc flash risk assessments	1	X
NV16-160	Lead awareness	1	X
NV16-159	Volatile organomental (loid) species in sewage/landfill gases	1	X
NV16-158	Flow, pressure, and the care of rodder hose	1	X
NV16-157	Collecting and managing pipe condition data	1	X
NV16-156	Integrating mobile mapping and underground video with GIS	1	X
NV16-155	PipePatch - live trenchless sectional pipe repair	1	X
NV16-154	Air movement and the how and why it works - part 2	1	X
NV16-153	Air movement and the how and why it works - part 1	1	X
NV16-152	Phased assessment strategy for sewers (PASS)	1	X
NV16-151	Hexavalent chromium monitor, drinking water real-time monitoring	1	X
NV16-150	Asset management using mobile computing	1	X
NV16-149	Operators make the best engineers	1	X
NV16-148	Ammonia based aeration control reduces energy consumption	1	X

NV16-147	Protecting your SCADA system in the age of IoT	1	X
NV16-146	What is your Arc flash NFPA 70e plan?	1	X
NV16-145	Motor controls & SCADA, current technology and how to apply it	1	X
NV16-144	EPA pretreatment update	1	X
NV16-143	Flushable wipes - detection by pretreatment inspectors	1	X
NV16-142	Managing your FOG producers	1	X
NV16-141	Are you connected to collection system?	1	X
NV16-140	Developing a dental amalgam program that works for you	1	X
NV16-139	35 years in pretreatment & collections wastewater industry	1	X
NV16-138	Environmental performance improvement through EMS	1	X
NV16-137	Radical odor control approach at East Providence WWTF, RI	1	X
NV16-136	Clarifiers: making what we have... Work better!	1	X
NV16-135	Optimize your gravity filter backwash	1	X
NV16-134	Biological & chemical phosphorus Removal - Part 2	1	X
NV16-133	Biological & chemical phosphorus Removal - Part 1	1	X
NV16-132	Teamwork leads to a "solid" job for Miami-Dade	1	X
NV16-131	City of Las Vegas WPCF digester rehabilitation	1	X
NV16-130	Chemical metering pump maintenance	1	X
NV16-129	Is cloud SCADA right for your water & wastewater utility?	1	X
NV16-128	Trenchless pipeline rehabilitation spot and joint repairs	1	X
NV16-127	New installation of HDPE piping systems & maintenance methods	1	X
NV16-126	Getting the air out of the pipe using air valves	1	X
NV16-125	Biaxial oriented PVC pipe for greater performance and safety	1	X
NV16-124	Corrosion- keeping the water in the pipe	1	X
NV16-123	MS4 compliance through interagency collaboration	1	X
NV16-122	Evaluating stormwater BMPs for effective pollutant control	1	X
NV16-121	Maintenance & operation of hydro dynamic separators	1	X
NV16-120	Don't be trash, cleanup and backup	1	X
NV16-119	Spill response - the aftermath that follows the main event	1	X
NV16-118	Preparing for intense storm events at Arizona airports	1	X
NV16-117	Stormwater visual assessments - making it clear as mud!	1	X
NV16-116	Gas detection fundamentals	1	X
NV16-115	RISK is not a 4-letter word in the water industry	1	X
NV16-114	Safe chlorine use and awareness	1	X
NV16-113	Operators make the best engineers	1	X
NV16-112	Work zone safety - a way of life	1	X
NV16-111	Avoiding catastrophe through utility conflict resolution	1	X
NV16-110	What to expect during an OSHA audit	1	X
NV16-109	How well do you know your cleaning hose?	1	X

NV16-108	City of Scottsdale Opts for oxygen for odor control	1	X
NV16-107	The dreaded flushable - are they really?	1	X
NV16-106	Avoid setting & keeping rising: Development tips for wastewater professionals	1	X
NV16-105	Wastewater infrastructure damage prevention	1	X
NV16-104	Choosing the best confined space gas detector	1	X
NV16-103	Determining RUL with new technologies	1	X
NV16-102	Reducing I/I in manholes & vaults	1	X
NV16-101	Confusions & solutions with coatings	1	X
NV16-100	Requirements of an effective corrosion control program	1	X