

# New Hampshire Continuing Education Relevant Course Topics

<u>Water Treatment Category</u>	<u>Water Distribution Category</u>
Continuing Education Topics	Continuing Education Topics
<b>General</b>	<b>General</b>
<ul style="list-style-type: none"> <li>Basic Electricity for Operators</li> <li>Basic Hydraulics</li> <li>Math for Operators</li> <li>Water Chemistry</li> <li>Water Microbiology</li> </ul>	<ul style="list-style-type: none"> <li>Basic Electricity for Operators</li> <li>Basic Hydraulics</li> <li>Math for Operators</li> <li>Water Chemistry</li> <li>Water Microbiology</li> </ul>
<b>Safety</b>	<b>Safety</b>
<ul style="list-style-type: none"> <li>Chlorine Safety</li> <li>Confined Space</li> <li>Electrical Hazards</li> <li>Hazard Commun/Right-to-Know</li> <li>Lab Safety</li> <li>Lockout/Tagout</li> <li>Personal Protective Equipment</li> <li>Safe Handling of Materials</li> <li>Spill Response</li> </ul>	<ul style="list-style-type: none"> <li>Chlorine Safety</li> <li>Confined Space</li> <li>Electrical Hazards</li> <li>Excavations, Trenching/Shoring</li> <li>Hazard Commun/Right-to-Know</li> <li>Lockout/Tagout</li> <li>Personal Protective Equipment</li> <li>Safe Handling of Materials</li> <li>Spill Response</li> </ul>
<b>Operate &amp; Maintain Equipment</b>	<b>Operate &amp; Maintain Equipment</b>
<ul style="list-style-type: none"> <li>Booster Pumping Stations</li> <li>Computers</li> <li>Electrical Controls/SCADA</li> <li>Hydraulics and Pneumatic Equip</li> <li>Motor Control Centers</li> <li>Pipe, Valves, Fittings</li> <li>Programmable Logic Controllers</li> <li>Pumps/Motors/Engines</li> <li>Stand-by/Aux/Support Equip</li> <li>Instrumentation</li> <li>Chemical Feed Systems</li> <li>Blowers and Compressors</li> <li>Generators</li> <li>Process Equipment</li> </ul>	<ul style="list-style-type: none"> <li>Booster Pumping Stations</li> <li>Electrical Controls/SCADA</li> <li>Hydraulics and Pneumatic Equip</li> <li>Motor Control Centers</li> <li>Pipe, Valves, Fittings</li> <li>Pumps/Motors/Engines</li> <li>Stand-by/Aux/Support Equip</li> <li>Instrumentation</li> <li>Chemical Feed Systems</li> <li>Blowers and Compressors</li> <li>Generators</li> </ul>
<b>Water Treatment Process/Quality Control</b>	<b>Water Treatment Process/Quality Control</b>
<ul style="list-style-type: none"> <li>Groundwater Basics/Aquifers</li> <li>Well Operation (yield, drawdown)</li> <li>Well Maintenance &amp; Rehab</li> <li>Aquifer Storage &amp; Recovery</li> <li>Water Source Treatment &amp; Charact</li> <li>Drinking Water Standards &amp; Rules</li> <li>Arsenic Removal</li> <li>Nitrate Removal</li> <li>Pesticide &amp; Herbicide Reduction</li> <li>Taste &amp; Odor Control</li> <li>Aeration</li> <li>Drinking Water Disinfection</li> <li>Disinfecting Water Storage Vessels</li> <li>Iron &amp; Manganese Removal</li> <li>Corrosion Control</li> <li>Chemical Storage &amp; Handling</li> <li>Chemical Precipitation Softening</li> <li>Cation Exchange Softening</li> <li>Coagulation &amp; Flocculation</li> <li>Sedimentation/Clarification</li> <li>Filtration</li> <li>Fluoridation</li> <li>Membrane Processes: Filtration Modes</li> <li>Adsorption Processes</li> <li>Surface Water Treatment</li> <li>Plant &amp; Distribution Storage</li> <li>Residuals Disposal</li> <li>Bacteriological Sampling Procedures</li> <li>Sampling &amp; Lab Analysis</li> <li>Zebra Mussel Control</li> <li>Algae Control</li> <li>Intake Structures</li> <li>Chemical Treatment</li> <li>Flow Measurement: Open Channel &amp; Pipe</li> <li>Oxidation</li> <li>Process Optimization &amp; Upgrade</li> <li>Cross-Connection/ Backflow</li> <li>Metering</li> <li>Jar Testing</li> </ul>	<ul style="list-style-type: none"> <li>Taste &amp; Odor Control</li> <li>Drinking Water Disinfection</li> <li>Disinfecting Water Storage Vessels</li> <li>Chemical Storage &amp; Handling</li> <li>Basic Knowledge of Surface Water Treatment</li> <li>Plant &amp; Distribution Storage</li> <li>Bacteriological Sampling Procedures</li> <li>Chemical Treatment</li> <li>Flow Measurements</li> <li>Point of Use/Point of Entry Devices</li> <li>Basic Knowledge of Groundwater Treatment</li> <li>Basic Knowledge of Water Treatment</li> </ul>
	<b>Distribution Process/Quality Control</b>
	<ul style="list-style-type: none"> <li>Wellhead/Source Water Protection</li> <li>Groundwater Basics/Aquifers</li> <li>Well Operation (yield, drawdown)</li> <li>Water Source Characteristics</li> <li>Drinking Water Standards</li> <li>Distribution Systems</li> <li>New Main &amp; Repair Disinfection</li> <li>Cross-Connection/ Backflow</li> <li>Corrosion Control</li> <li>Mapping, Locating, Tracer Wire</li> <li>Hydrants, Valves, Exercising Programs</li> <li>Flushing, Pigging, and Swabbing</li> <li>Dechlorination</li> <li>Fire Flow Testing</li> <li>Storage</li> <li>Trenchless Construction: Pipe Bursting</li> <li>Metering</li> <li>Service Line &amp; Curb Box Maintenance</li> <li>Leak Detection/Water Audits</li> <li>Chlorination</li> <li>Sampling &amp; Lab Analysis</li> </ul>
<b>Administration/Management</b>	<b>Administration/Management</b>
<ul style="list-style-type: none"> <li>Compliance</li> <li>Regs, Permits, SDWA, CWA, Oper Cert</li> <li>Customer Water Quality Inquiries</li> <li>Emergency &amp; Security Training</li> <li>Risk Management</li> <li>Sanitary Surveys</li> <li>Surface/Groundwater Watershed Protection</li> <li>Water Conservation</li> <li>Plant Optimization</li> <li>Source/Plant Inspections</li> </ul>	<ul style="list-style-type: none"> <li>Compliance</li> <li>Regs, Permits, SDWA, CWA, Oper Cert</li> <li>Construction/Inspection/Design/Build</li> <li>Customer Water Quality Inquiries</li> <li>Emergency &amp; Security Training</li> <li>Inspections/Surveys</li> <li>Records &amp; Reports: Cons Conf Reports</li> <li>Sanitary Surveys</li> <li>Surface/Groundwater Watershed Protection</li> <li>Water Conservation</li> </ul>