

# Class Schedule

PPSO 2-day Certification Class Schedule			
Topic	Duration	Content	
<b>Chapter 1</b>	30 min	<ul style="list-style-type: none"> <li>• PPSO' requirements</li> <li>• PPSO's role</li> <li>• Health Department Official's role</li> <li>• Lifeguarding requirements</li> <li>• Record keeping</li> </ul>	<b>THE PROFESSIONAL POOL AND SPA OPERATOR</b>
<b>Chapter 2</b>	90 min	<ul style="list-style-type: none"> <li>• Calculate surface area for simple forms, compound shapes and free-form shapes</li> <li>• Calculate pool and spa volume and capacity for multi-depth pools and spas</li> <li>• Calculate maximum user load</li> <li>• Calculate make-up water</li> </ul>	<b>POOL AND SPA CALCULATIONS</b>
<b>Chapter 3</b>	90 min	<ul style="list-style-type: none"> <li>• Name the five forms of suction entrapment and preventative measures</li> <li>• Demonstrate how to inspect covers for compliance with the P&amp;SS Act</li> <li>• List the factors that must be taken into account to ensure safety in aquatic installations</li> <li>• List at least five recommended chemical safety procedures</li> <li>• List ADA requirements for swimming pools and spas</li> <li>• Determine what to do in case of an electrical storm and lightning</li> <li>• Explain how to reduce liability</li> </ul>	<b>SAFETY</b>
<b>Break</b>			
<b>Chapter 4</b>	60 min	<ul style="list-style-type: none"> <li>• Name the top five recreational water illnesses and their mode of transmission</li> <li>• Explain what CT values are and how</li> </ul>	<b>RWI'S</b>

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		<p>they aid in deactivating disease organisms</p> <ul style="list-style-type: none"> <li>• Explain five causes of recreational water illnesses in pools and spas</li> <li>• List steps to take to prevent RWIs in the aquatic environment</li> <li>• List the procedures for body fluid and fecal decontamination</li> </ul>
<b>Lunch</b>		
<b>Chapter 5</b>	90 min	<ul style="list-style-type: none"> <li>• Explain why water balance is important</li> <li>• Name the five factors of water balance and the methods to adjust them</li> <li>• Explain the difference between Total Alkalinity (TA) and Carbonate Alkalinity (CA)</li> <li>• Calculate Carbonate Alkalinity</li> <li>• Use the Langelier Saturation Index to balance pool water</li> <li>• Demonstrate how to adjust pool water that is unbalanced</li> </ul>
		<b>BASIC WATER CHEMISTRY &amp; WATER BALANCE</b>
<b>Chapter 6</b>	60 min	<ul style="list-style-type: none"> <li>• Describe the differences between disinfection and oxidation</li> <li>• Name the chemicals used for disinfecting and oxidizing pool/spa water</li> <li>• Explain the chemistry of chlorination</li> <li>• Differentiate between free chlorine, chlorine demand, combined chlorine, breakpoint chlorination and stabilizer</li> <li>• Describe two supplemental sanitizing systems</li> </ul>
		<b>SANITATION</b>
<b>Break 3:30 – 3:45 pm</b>		
<b>Chapter 7</b>	30 min	<ul style="list-style-type: none"> <li>• Identify the causes of staining and explain the treatment process for</li> </ul>
		<b>SPECIALTY CHEMICALS</b>

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		<p>removal</p> <ul style="list-style-type: none"> <li>• Give examples of conditions for algae's growth and demonstrate steps to prevent them</li> <li>• Describe steps to diagnose the cause of a cloudy pool</li> <li>• Define when to use oxidizers</li> </ul>	
<b>Chapter 8</b>	60 min	<ul style="list-style-type: none"> <li>• List the common types of water tests in the pool and spa industry</li> <li>• Describe the proper techniques for obtaining a water sample for testing</li> <li>• Explain the procedures to test for sanitizer residual, pH, Total Alkalinity, Calcium Hardness, and Cyanuric Acid</li> <li>• Identify common testing problems and how to correct them</li> </ul>	<b>WATER TESTING</b>
<b>Second Day</b>			
	30 min	<b>Review / questions</b>	
<b>Chapter 9</b>	60 min	<ul style="list-style-type: none"> <li>• Describe the terms influent, effluent, suction side, pressure side</li> <li>• Explain turnover and flow rate and their connection</li> <li>• Name the major parts of a circulation system and explain what each does</li> <li>• List the criteria used to determine when to backwash the filter</li> <li>• Name the different types of valves you might find on a commercial pool or spa circulation system</li> </ul>	<b>CIRCULATION SYSTEMS</b>
<b>Chapter 10</b>	60 min	<ul style="list-style-type: none"> <li>• Explain the purpose of the filter in the circulation system</li> </ul>	<b>FILTRATION SYSTEMS</b>

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		<ul style="list-style-type: none"> <li>Describe the operation of the common types of basic filters</li> <li>Explain how to clean or backwash sand, cartridge and diatomaceous earth filters</li> <li>Name the alternative filter media types</li> </ul>	
<b>Break</b>			
<b>Chapter 11</b>	45 min	<ul style="list-style-type: none"> <li>Explain the safety considerations when using gas chlorine</li> <li>Explain where in the circulation system a chemical feeder or generator should be installed</li> <li>Describe the operation for several chemical feed systems</li> <li>Describe the process for preventing bleach feeders from scaling up</li> </ul>	<b>CHEMICAL FEEDERS</b>
<b>Chapter 12</b>	60 min	<ul style="list-style-type: none"> <li>Describe the routine and regular operating procedures for a commercial aquatic facility</li> <li>Describe routine and regular cleaning procedures</li> <li>Explain seasonal care for pools and spas in a variety of climates</li> <li>Name the most commonly used interior pool finishes</li> <li>Explain the different types of covers used in a commercial aquatic facility</li> </ul>	<b>ROUTINE &amp; PREVENTATIVE MAINTENANCE</b>
<b>Lunch Break</b>			
<b>Chapter 12</b>	60 min	<ul style="list-style-type: none"> <li>Explain the effects of hot water on the growth of microorganisms</li> <li>Describe the effects of temperature on water chemistry</li> <li>Explain how hot water in spas can</li> </ul>	

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		affect the bathers <ul style="list-style-type: none"><li>• Explain when to drain and refill a spa</li></ul>
<b>Local Codes</b>	90 min	<ul style="list-style-type: none"><li>• Identify the source for required state and local regulations</li><li>• Apply state and local regulations to their daily pool and spa operations</li></ul>
	30 min	<b><i>Test Review</i></b>
<b>Exam</b>	<b>2.5 hrs.</b>	