

**Week 2: Controller Safety & Maintenance**

Chemical controllers are the backbone of a properly maintained aquatic facility, ensuring that pH and sanitizer levels remain within safe and effective ranges. However, simply having a controller isn't enough—daily interaction is essential. Pool operators should check readings, verify sensor accuracy, and confirm that the system is actively adjusting chemicals as needed. Ignoring the controller for even a day can lead to imbalanced water, which can cause equipment damage, swimmer discomfort, or even unsafe conditions.

Proper programming and maintenance are key to keeping a chemical controller reliable. Controllers must be programmed correctly based on pool size, bather load, and chemical demand. Routine maintenance, such as cleaning probes, calibrating sensors, and inspecting flow cells, ensures that the system is functioning as intended. A controller is only as effective as the attention it receives—regular oversight helps prevent costly issues and keeps water safe, clear, and balanced.