



**COUNTY OF LOS ANGELES - DEPARTMENT OF PUBLIC HEALTH  
ENVIRONMENTAL HEALTH – RECREATIONAL WATERS PROGRAM  
5050 Commerce Drive, Baldwin Park, CA 91706  
(626) 430-5360  
<http://www.publichealth.lacounty.gov/eh/rw.htm>**



**SWIMMING POOL TECHNICIAN CERTIFICATION EXAMINATION  
APPLICATION PROCEDURE**

1. Fill out all the requested information on the enclosed application.
2. Indicate whether you are taking the Technician or Apprentice Technician examination.
3. Include a picture of the applicant.
4. Be sure to sign the application.
5. Enclose a check or money order (NO CASH) payable to the LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH.
6. Examination fees are non-refundable. There is a 30 day waiting period between exams if you fail. The examination must be taken within one year after payment of the fee.
7. You will be sent a study guide after you send in your application and pay your examination fee.
8. When you think you are ready to take the examination call (626) 430-5360 for an appointment.
9. It is recommended you take a pool class before taking the examination.

**YOU MAY BE TESTED ON YOUR KNOWLEDGE OF THE FOLLOWING:**

California Code of Regulations Titles 22 & 24 regarding requirements at public pools, including:

- Disinfection, pH and stabilizer levels.
- Safety signs and equipment.
- Requirement of operational records.
- Lifeguard requirements.
- Clarity, bacteriological and chemical quality of pool water.
- General requirements for maintaining pools clean, sanitary and in good repair.
- Skimmers and their proper operation and maintenance.
- Required turnover rates.
- Replacement of equipment.
- Backflow protection.
- Lighting.
- Depth marker requirements.
- Pressure gauges
- Flowmeters.
- Chlorine gas.
- Maximum water temperatures.

## **Your understanding of the following terms and concepts:**

- Breakpoint chlorination.
- Chlorine and bromine based products used to disinfect pool water.
- Methods of action of disinfectants in clarifying and sanitizing pool water.
- Advantages and disadvantages of various disinfectants, their properties and effects on pool water.
- Chlorine demand. Combined, total, and free available chlorine.
- Alternate methods of disinfection and treatment of pool water.
- Balance of pool water. Total alkalinity, calcium hardness and pH, and proper levels in pool water.
- Other chemicals used in pool maintenance including stabilizers, sequesterants, algicides, and flocculants.
- Effects of corrosive and alkaline water.
- Tests and proper use of test kits for measuring disinfectant residuals, pH and other chemical levels in pool water.
- Detrimental effects on health of improperly disinfected and balanced pool water.
- Pool chemical safety. Pool filter types, capabilities, sizing, cleaning and maintenance.
- Pool pumps, basic design, operation, characteristics, and maintenance. Pump curves.
- Chemical feeders, their proper sizing, use, and maintenance.
- Supplemental equipment associated with pool recirculation systems including, separation tanks, multiport valves, hydrostatic valves, sizing of pool heaters, and ORP meters.

## **Your knowledge of how to:**

- Calculate pool and spa volumes.
- Elevate or lower pH, alkalinity, calcium and stabilizer levels.
- Calculate levels of disinfectant in part per million given a pool volume and amount of disinfectant added.
- Calculate minimum flow rates, turnover rates, and filter sizes for public pools.
- Determine total dynamic head of a pool recirculation system.
- Determine the flow rate from total dynamic head and pump curve charts.
- Calculate volume of water loss through leakage and evaporation.
- Calculate saturation index.
- Calculate horsepower given, watts, voltage, and amperage.

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ATTACH  
PHOTO  
HERE

**SWIMMING POOL SERVICE TECHNICIAN AND APPRENTICE TECHNICIAN APPLICATION**

**Instructions:** Complete this form and mail to the address indicated above. Enclose a check or money order (NO CASH) payable to: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC HEALTH. Be sure to attach a portrait of the applicant. Examination fees are non-refundable. There is a fee each time an examination is taken and a 30 day waiting period between exams. Examination must be taken within one year after payment of fee.

SWIMMING POOL SERVICE TECHNICIAN \$ 184.00

SWIMMING POOL SERVICE TECHNICIAN APPRENTICE \$ 184.00

APPLICANT'S NAME		DATE
HOME ADDRESS		PHONE
CITY	ZIP	DRIVERS LIC. #

**APPLICANT'S SIGNATURE >**

**THIS SECTION TO BE COMPLETED BY TECHNICIAN APPLICANTS ONLY**  
Attendance in a pool class is recommended.

**ANY POOL CLASSES YOU MAY HAVE TAKEN**

COURSE NAME	TAKEN AT
DATE COMPLETED	INSTRUCTOR

**EXPERIENCE**

EMPLOYER	ADDRESS	
WORK PERFORMED	FROM TO	PHONE

OTHER EXPERIENCE

**THIS SECTION TO BE COMPLETED BY TECHNICIAN APPRENTICE APPLICANTS ONLY**

TECHNICIAN SUPERVISING YOU	ADDRESS		
CITY	ZIP	TECH #	PHONE

I will employ and supervise this apprentice technician applicant and assume full responsibility for his work. **SIGNATURE OF TECHNICIAN >**

**FOR DEPARTMENT OF PUBLIC HEALTH USE ONLY**

DATE PAID									ACCOUNT #
EXAM DATE									TECH #
SCORE									DATE PASSED

## RECOMMENDED LITERATURE

1. "Basic Training Manual, Part 1, Chemicals"

Independent Pool and Spa Service Association, Inc. (ipssa)  
10842 Noel Street #107  
Los Alamitos, CA 90720  
888-360-9505 email: [info@ipssa.com](mailto:info@ipssa.com) Internet: [www.ipssa.com](http://www.ipssa.com)

2. "Continuing Education Series, Pool Chlorination Facts"

Independent Pool and Spa Service Association, Inc. (ipssa)  
10842 Noel Street #107  
Los Alamitos, CA 90720  
888-360-9505 email: [info@ipssa.com](mailto:info@ipssa.com) Internet: [www.ipssa.com](http://www.ipssa.com)

3. "Everything You Always Wanted To Know About Pool Care"  
"Guide to Chlorine"  
"Guide to pH, Alkalinity, Water Testing and Water Balance"  
"Guide to Alternative Sanitizes"

Service Industry News  
P.O. Box 5829  
San Clemente, CA 92674-5829  
(949) 366-9981  
[www.poolspa.com/publications/sin/products.html](http://www.poolspa.com/publications/sin/products.html)

4. "Basic Pool and Spa Technology"  
various other publications

National Spa & Pool Institute  
2111 Eisenhower Ave.  
Alexandria, VA 22314  
(703) 838-0083  
[www.nspi.org](http://www.nspi.org)

5. "Pool/Spa Operator's Handbook"

National Swimming Pool Foundation  
224 East Cheyenne Mtn. Blvd.  
Colorado Springs, CO 80906  
(719) 540-9119  
[www.nspf.com](http://www.nspf.com)

6. "Pool Operator's Manual"  
Washington State Public Health Association  
Other publications available

7. National Environmental Health Association  
720 S. Colorado Blvd.  
Denver, CO 80246  
(303) 756-9090  
[www.neha.org](http://www.neha.org)

## RECOMMENDED POOL CLASSES

### ANTELOPE/SANTA CLARITA/SAN FERNANDO VALLEY

Blue Wave Certification Instruction  
Two Saturday classes  
Instructor: Tom Clark  
(661) 250-5316

### LOS ANGELES

Russ Tucker Pool School  
6 Saturday Morning Classes  
8:00 a.m. – 12:00 p.m.  
(310) 218-6693  
[www.russtuckerpools.com](http://www.russtuckerpools.com)

### Riverside / Anaheim / San Diego

2 day CPO classes  
Instructor: Steve Donohoe  
(949) 235-5888  
[www.AnotherPerfectPool.com](http://www.AnotherPerfectPool.com)

### SAN BERNARDINO AREA

Two Saturday classes  
Instructor: Michael Clouse  
Work (213) 485-4814  
Home (909) 887-1106

### SAN GABRIEL VALLEY

National Pool Tech Training  
222 E. Foothill Blvd.  
Monrovia, CA 91016  
Two day course  
(888) 609-0302  
(626) 303-3758

### SAN FERNANDO VALLEY

Russ Tucker Pool School  
6 Friday Evening Classes  
5:00 p.m. – 9:00 p.m.  
(818) 998-7511  
[www.russtuckerpools.com](http://www.russtuckerpools.com)

### CERTIFIED POOL/SPA OPERATOR'S COURSE (CPO)

Offered at various times and locations throughout southern California  
National Swimming Pool Foundation  
4775 Grandby Circle  
Colorado Springs, CO 80909  
For information, call (719) 540-9119  
or visit their web site at [www.nspf.com](http://www.nspf.com)