

# NYSDOH Designated List of Applicable Work Experience for Each Water Operator Certification Grade Level

## I. Treatment Experience (Grade IA, IIA, IB, IIB & C Applicants Only)

### A. Monitor and Evaluate Disinfection/Water Quality Sampling

- ♦ *monitor chlorine disinfection*
- ♦ *evaluate chlorine disinfection*
- ♦ *perform chlorine demand sampling*
- ♦ *monitor temperature*
- ♦ *perform turbidity sampling*
- ♦ *monitor ultraviolet light operation/intensity meter*
- ♦ *perform bacteriological sampling*
- ♦ *perform organic sampling*
- ♦ *perform pH sampling*
- ♦ *perform chemical residual sampling (ex: free chlorine, chlorine dioxide, phosphate, fluoride)*
- ♦ *other:*

### B. Monitor, Evaluate, and Adjust Treatment Processes

- ♦ *adjust chemical feed rates*
- ♦ *adjust flow patterns*
- ♦ *adjust process units*
- ♦ *calculate dosage rates*
- ♦ *confirm dosage rates*
- ♦ *perform process control calculations*
- ♦ *diagnose/troubleshoot process units*
- ♦ *monitor and evaluate process units*
- ♦ *perform physical measurements*
- ♦ *prepare chemicals*
- ♦ *other:*

### C. Operate/Maintain/Install Treatment Equipment

- ♦ *calibrate analytical instruments*
- ♦ *operate analytical instruments*
- ♦ *measure and prepare chemicals*
- ♦ *operate centrifugal pumps*
- ♦ *operate and maintain chlorinators*
- ♦ *operate electronic testing equipment*
- ♦ *operate SCADA system*
- ♦ *operate tapping equipment*
- ♦ *operate and maintain valves*
- ♦ *perform corrosion control calculations*
- ♦ *prepare corrosion control chemicals*
- ♦ *maintain fittings, pumps and valves*
- ♦ *liquid/dry chemical feed equipment*
- ♦ *filter backwash*

- ♦ change/cleaning cartridge/bag filters
- ♦ chemical storage (bulk & day)
- ♦ *other:*

#### **D. Laboratory Analysis**

- ♦ *analyze samples*
- ♦ *calculate results of tests*
- ♦ *calibrate lab instruments*
- ♦ *check and make reagents*
- ♦ *evaluate data*
- ♦ *interpret test results*
- ♦ *maintain log book*
- ♦ *measure and prepare chemicals*
- ♦ *operate lab instruments*
- ♦ *preserve, store, and ship samples*
- ♦ *record samples*
- ♦ *select proper test methods*
- ♦ *select sample locations and samples*
- ♦ *properly store and dispose of chemicals*
- ♦ *summarize results of analysis*
- ♦ *other:*

## **II. Administrative Experience (All Applicants)**

### **A. Perform Security, Safety, and Administrative Procedures**

- ♦ *administer compliance and laboratory programs*
- ♦ *administer emergency preparedness, safety and security programs*
- ♦ *assign work to proper staff*
- ♦ *conduct training*
- ♦ *develop budget*
- ♦ *develop operation and maintenance plan*
- ♦ *develop written policies and procedures*
- ♦ *develop sampling plans based on regulations*
- ♦ *plan and organize work activities*
- ♦ *review reports*
- ♦ *write regulatory authority reports*
- ♦ *maintain daily logs*
- ♦ *report to DOH in a timely manner*
- ♦ *notify DOH in event of emergency*
- ♦ *draft and distribute public notification*
- ♦ *other:*

## **III. Distribution System Experience (Grade C & D Applicants Only)**

### **A. Operate/Maintain/Install Distribution Equipment**

- ♦ *install hydrants*
- ♦ *install meters*
- ♦ *install service piping*
- ♦ *install service connections*

- ♦ *excavation, shoring, and trenching*
- ♦ *install taps*
- ♦ *install valves*
- ♦ *install water mains*
- ♦ *repair water main breaks*
- ♦ *flush distribution system*
- ♦ *perform water main disinfection*
- ♦ *operate and maintain hydrants*
- ♦ *operate pipe locators*
- ♦ *maintain cross-connection control and backflow prevention assemblies*
- ♦ *operate leak detectors and correlators*
- ♦ *maintain leak detection programs*
- ♦ *maintain meters*
- ♦ *maintain pipes*
- ♦ *maintain water mains*
- ♦ *maintain water storage facilities*
- ♦ *other:*