

# WASHINGTON STATE DEPARTMENT OF PERSONNEL

92592

Specification for Class of

## FISH HATCHERY SPECIALIST 1

**Abolished Effective July 1, 2007**

Definition: Performs a variety of technical and scientific fish culture duties, performs hatchery related maintenance, and participates in an agency supervised fish culture training program.

Distinguishing Characteristics: This is an in-training class. Incumbents must successfully complete the fish culture training program within prescribed time limits to advance to Fish Hatchery Specialist 2.

### Typical Work

Learn to perform fish marking techniques for identification and recovery of species; learn to identify, sort and process marked broodfish; compile and record data for biological analysis;

Learn to administer the correct dose of drugs and anesthetics to fish by injection or immersion and to calibrate, clean, and sterilize inoculation equipment; learn to calculate, apply, monitor, evaluate, and record therapeutant levels to control pathogens;

Learn to identify and sort for spawning individual adult fish according to species, gender, condition of maturity, or other defined characteristics; learn to remove and collect eggs and sperm to ensure viable, uncontaminated gametes and genetic variability;

Learn to identify and remove weak or dead eggs, and shock eggs; learn to influence the rate of development of eggs and fry by temperature manipulation of water; learn to apply thermal marks for otolith differentiation; learn to sterilize groups of eggs with heated water; learn to acclimate eggs to new water source temperature regime;

Learn to calculate daily feed requirements, feeding frequency, and delivery rates based on species, densities, fish size, temperature, flows, turbidity, dissolved oxygen levels, and fish health and desired growth rates;

Learn to monitor fish behavior and record mortalities, examine mortalities for clinical signs of fish pathogens, monitor water quality and rearing environments, and notify supervisor and fish health specialist when abnormalities occur;

Learn to collect, monitor, and record weather and water quality parameters which include temperatures, flow, turbidity, dissolved oxygen/total gas, pH, total suspended solids (TSS), and settleable solids (SS); monitor, adjust, and maintain water treatment systems;

Learn to liberate various sizes and species of fish to the waters of the state, using airplane, backpack, barge, horseback, truck, forced release, and volitional release methods; learn to operate vehicles equipped with fish tanks of various sizes in compliance with state and federal laws; maintain a valid Commercial Driver's License, as needed;

Learn to make scheduled and emergency repairs to structures such as buildings, docks, rearing vessels, and net pens; learn to operate, monitor, maintain, and repair mechanical or electrical systems for chemical delivery, domestic and hatchery water supplies, power and lights, feed delivery, filters and hatchery intakes, sewage, and ventilation; learn to operate, inspect, adjust, maintain, and repair pumps and pump motors, gas and diesel generators, small engines, fork lifts, compressors, crowders, hydraulic and pneumatic equipment, and heating systems;

Learn to operate, monitor, and respond to all alarms that provide security and protection;

Wear and use employee safety equipment as directed; learn to inspect, clean, and repair employee safety equipment; learn to test employee safety equipment and record respirator cartridge use and results of respirator tests;

Learn to collect, compile, and store data on a variety of activities pertaining to fish rearing;

Perform other work as required.

### Knowledge and Abilities

Knowledge of: fish species and gender identification, fish culture methods and techniques, math, scientific terminology and techniques, mechanical equipment repair; methods, equipment, and supplies used in maintenance of hatchery structures and grounds.

Ability to: successfully complete agency supervised training program, work out of doors in all weather conditions, perform strenuous physical activities, perform basic mechanical tasks using power and hand tools, follow instructions and complete assigned tasks, gather and compile data, use sound judgment.

### Minimum Qualifications

Associate's degree in fisheries technology or closely allied field.

OR

Three years of education towards a Bachelor's degree in fisheries or closely allied field.

OR

Successful completion of a fish culture program from a vocational school.

Three years of experience performing a variety of fish culture duties in a hatchery will substitute for the required education.

NOTE: A valid driver's license is required. Some positions require a Class A or Class B Commercial Driver's License.

New class: 7-14-95 (effective 9-1-1995)