

Apprentice Water Conditioner Installer &

Water Conditioner Installer Licensing Study Topics

Definitions and terminology

- Potable Water
- pH
- Turbidity
- Total Dissolved Solids
- Cross Connection
- Coliform Bacteria
- Total Hardness
- Sodium Thiosulfate
- Resistivity
- Swing type check valve

- Manganese greensand filters
- Negative pressure
- Sulfur, Iron, Manganese, Sand removal
- Equipment
- Polyphosphate solution
- Fittings
- Air Gaps
- Free Chlorine Residual
- Reverse osmosis
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Conversions

- Parts – per –million to grains-per-gallon
- Parts-per-million to milligrams-per-liter
- 1 psi = 2.31 ft of head

Properties of Water

- Nitrates
- Iron bacteria
- Taste/odor
- Groundwater
- Locations of common pollutants in groundwater
- Stains in household fixtures

Water Treatment/Prevention

Processes

- Ion exchange
- Zeolite Softening
- Chlorine/Filtration
- Filtration
- Proper Chemical Injection
- Activated Carbon Filtration
- Soda Ash
- Oxidizing Filters
- Testing (Alkalinity)
- Chlorination

State Regulations

- Licensing processes
- Water system requirements
- Plumbing codes
- Violations

Maintenance

- Backwash
- Waterlogged
- Types of pressure Tanks
(Bladder)
- Chlorine leak detection
- Servicing a water well
system