

# ALL EMPLOYEES ARE TO BE TRAINED PRIOR TO USING EQUIPMENT

## I. Pre Operation

**Inspection/Service** - Eye wash station needs to be within immediate access if pre-mixing chemicals take place.

- **Chemical Exposures** - The chemicals used in water plant treatment are:

***Insert the chemicals used at your park here along with the health hazards, first aid treatment.***

The Material Safety Data Sheets (MSDS) for the above chemicals are located **\_\_\_\_\_** with the following information:

- Physical and Chemical Characteristics.
  - Physical and Health Hazards.
  - Route of Chemical Entry into the Body.
  - Permissible Exposure Limits.
  - Precautions for Safe Use.
  - Work Practices and PPE.
  - Emergency First Aid Procedures.
  - Info on manufacturer.
  - ***Each employee is to review the MSDS's on all chemicals used in the water plant treatment and demonstrate they understand the above information.***
- **First Aid Procedures** - You are required to know and follow the first aid procedures listed on the MSDS sheets if a chemical exposure occurs.
  - **Chemical Labeling** - All primary and secondary chemical containers are required to have the HMIS labeling and the chemical name on the container.
  - **Supporting Equipment** - **Park procedures here.**
  - **Inspect** chemical pumps/barrel. **Park procedure here.**
  - **Inspect** pressure gauge. Look for leaks and turbidity.
  - **Log chemical application** – Report the necessary information on a log sheet.
  - **Lockout/Tagout (LO/TO) on site lock if needed.**

## II. Operation

### Personal Protective Equipment

- **Goggles** should be kept in a zip lock bag and rinsed after use. Face shield should be used if necessary.
- **Apron** and gloves.
- **Respiratory** protection per MSDS requirements.

## Site Assessment

- **Inspect** electrical outlets for corrosion.
- **Keep** area clean.

## Starting - Park procedures here.

- **Determine** whether barrels need to be filled with chemicals.
- **Rinse** barrel before refilling.
- **Lubricate** chemical feed pumps, as per manufacturer specifications.
- **Clean** intake/source twice a year for surface water. Park procedure here.
- **Service/maintain** pumps by trained personnel according to manual specifications.

## Operation Includes: **Park procedures here.**

- **Check pH levels**, raw turbidity & chlorine levels.
- **Water lab test** for bacteria and nitrate (when required by state.)
- **Backwash** system to improve water flow.
- **Drain** and clean reservoirs as necessary.
- **Determine** whether a permit is required for a particular confined space before entering. **\*\*NO PERSON IS TO ENTER A PERMIT-REQUIRED CONFINED SPACE AT ANYTIME\*\***

## 5. Emergency Operations for **Park procedures here.**

- **Power failure.**
- **Failed pump.**
- **Contaminated water.**

III. **Post Operation** - Clean and inspect the building for damage or additional maintenance prior to leaving. LO/TO if repairs are needed.

IV. **Demonstration and Proficiency** - All persons trained on water treatment are required to demonstrate their proficiency prior to signing the training ledger, **AND HAVE THEIR STATE WATER LICENSE PRIOR TO BEING CERTIFIED TO MANAGE A WATER TREATMENT PLANT.**

# PROFICIENCY TEST

## WATER TREATMENT

06-02

### I. Multiple Choice

1. What document contains the following information: physical and chemical characteristic, route of chemical entry into body, precaution, emergency & first aid, physical and health hazards, permissible exposure limits, work practices and PPE, information on manufacturer?
  - a) Container label.
  - b) Standard operating procedures.
  - c) Material Safety Data Sheet.
  - d) None of the above.
2. Which of the following personal protective equipment **don't** you need?
  - a) Hearing Protection.
  - b) Goggles.
  - c) Apron.
  - d) Gloves.
3. Which of the following is **not** a part of pre-operation:
  - a) Inspecting the pressure gauge and looking for leaks and turbidity.
  - b) Lubricating chemical feed pumps.
  - c) Labeling chemical containers with appropriate HMIS labels.
  - d) Familiarity with the MSDS's.

### II. True/False

4. \_\_\_\_\_ You don't need to know the first aid procedures for a specific chemical, just first aid in general.
5. \_\_\_\_\_ Keep your goggles hanging on a nail close by.
6. \_\_\_\_\_ You should rinse barrels before refilling.
7. \_\_\_\_\_ You need to see if a confined spaces permit is required before entering any enclosed are where chemicals may be present.
8. \_\_\_\_\_ You don't need to worry about the backwash system, someone else will do this.
9. \_\_\_\_\_ You need to clean the intake/source two times per year or as needed.
10. \_\_\_\_\_ You only need to perform water lab test for bacteria when it is required by the state or when it is needed.
11. \_\_\_\_\_ It is important to inspect electrical outlets for corrosion before proceeding with the operation.

### III. Discussion Questions

1. What personal hazards are present when working with a water treatment plant?
2. What are your emergency procedures if the water plant is not operational?

Employee Name: \_\_\_\_\_ Pass \_\_\_\_\_ No/Pass \_\_\_\_\_ Date: \_\_\_\_\_  
Take this test to your supervisor or trainer for sign off.