

JOB ROLE – FIELD TECHNICIAN - OTHER HOME APPLIANCE

Sector – Electronics
(Qualification Pack Code: ELE/Q3104)



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UNIT 4: INSTALLATION OF WATER PURIFIER

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Unit Objectives

The student will be able to:

- Describe the need of water treatment,
- Describe the treatment agents,
- Describe the water flow in water purifier,
- Perform the installation of water purifier,
- Describe the post installation process.

Introduction

We mostly associate diseases with a change in weather or having food in unhygienic locations. However, we tend to overlook the fact that even water can cause these

diseases. Through tap water you might be unknowingly consuming substances like chlorine, bacteria, pesticides and much more. All it takes is one simple step to avoid this problem, installing a water purifier.

Chemical Composition of

Water

Water is a transparent, odourless, tasteless and colourless. Its chemical formula is H_2O and it is made up of two hydrogen atoms and one oxygen atom joined together by covalent

The following are the various properties of water:

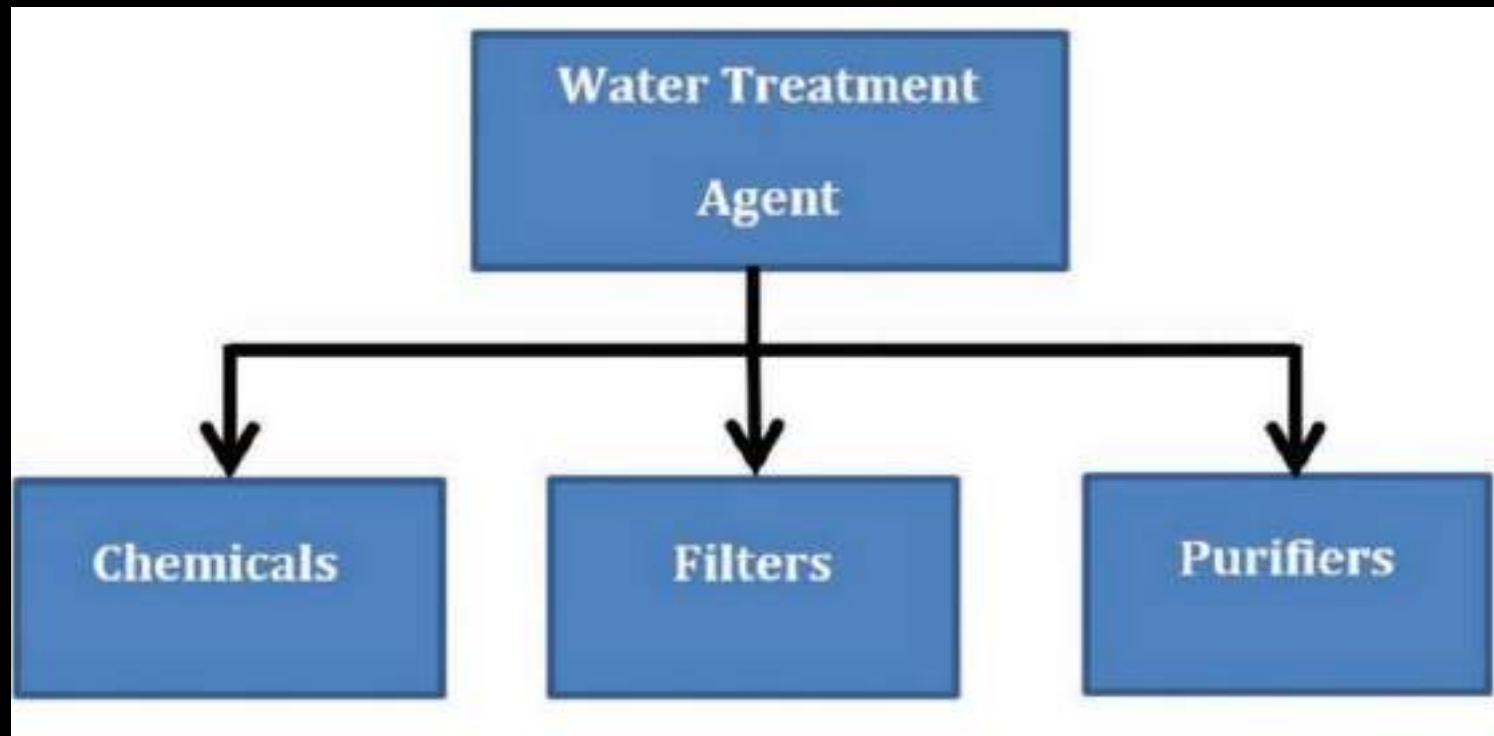
- Universal Solvent
- High Specific Heat
- Strong Surface Tension
- Neutral pH
- High Polarity

Water Treatment Method

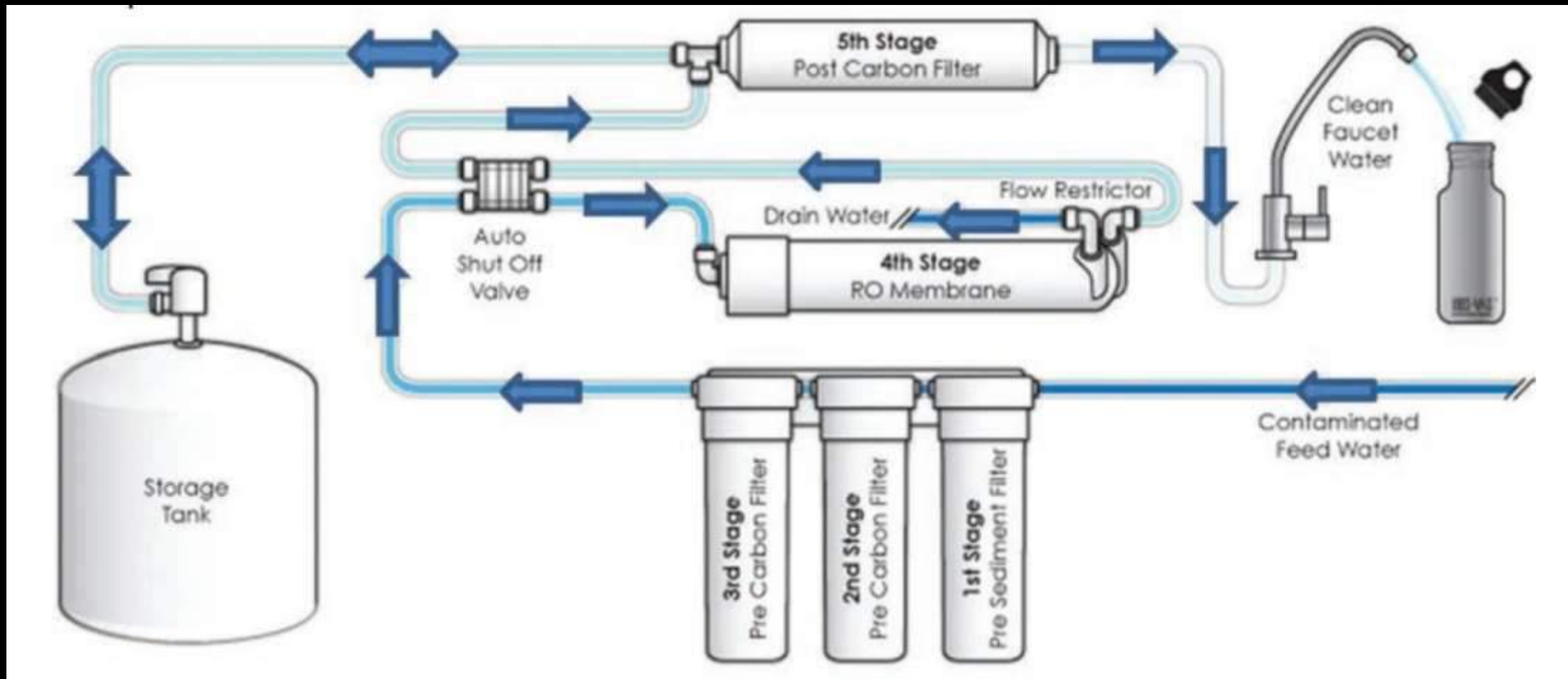
1. **Community water treatment** - Surface water treatment plant is used for the removal of contaminants to make it fit for use by community.
2. **Domestic water treatment** - Individual water treatment at home is done to improve the quality of water and make it potable.

Water Treatment Agent

Different types of agents are used for the water treatment. This will make water safe for drinking.



Water Flow Diagram of Water Purifier

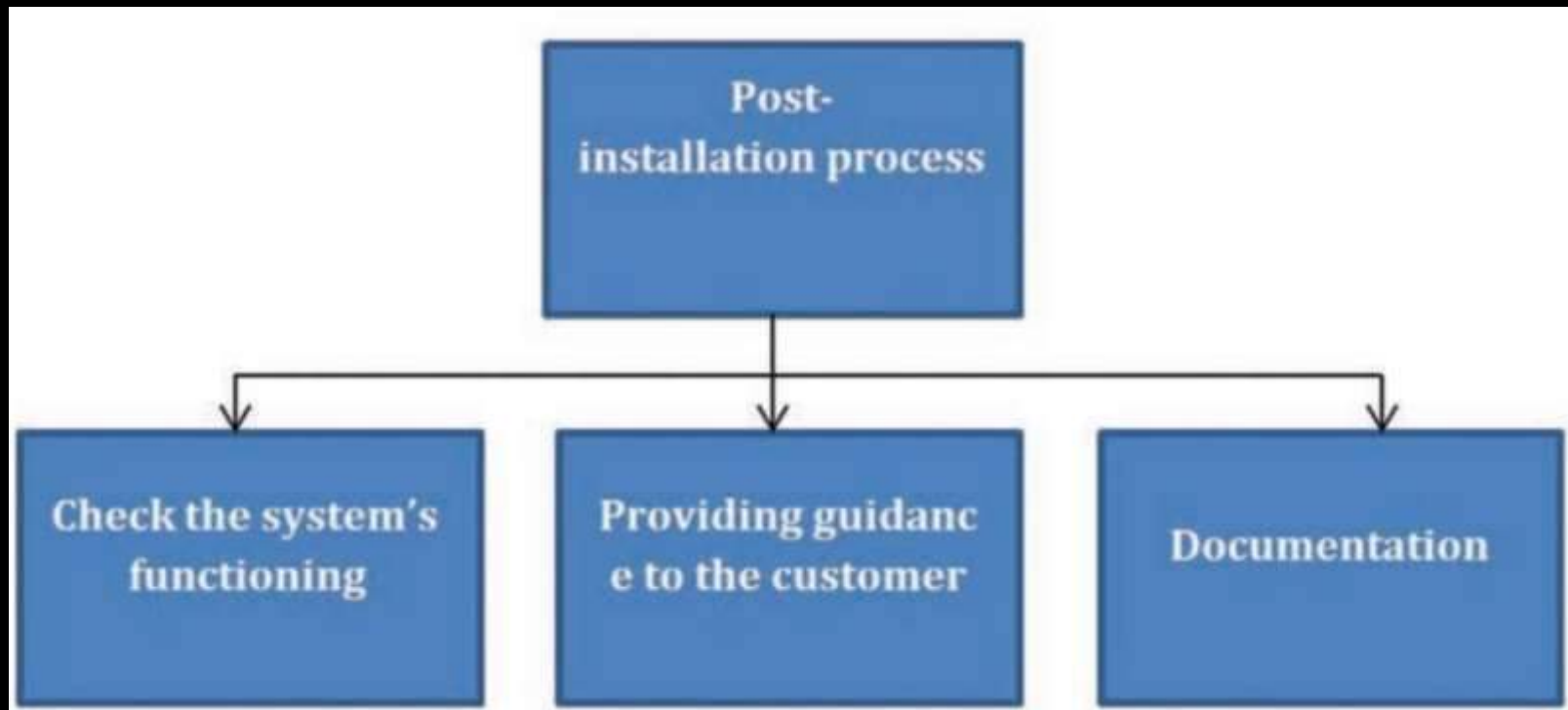


Installation of Water Purifier

1. Unpacking of water purifier.
2. Setting up the connection of water inlets.
3. Making preparation to mount the water purifier.
4. Installing the water purifier.

Post Installation of Water Purifier

Once the purifier has been successfully installed, it is time to follow the post-installation process to ensure completion of the installation process.



Summary

- Chemical composition and property of water.
- Different water treatment methods.
- Water treatment agents such as chemicals, purifiers, filters.
- Water flow diagram of water purifier.
- Water purifier installation procedure.
- Water purifier post installation procedure.

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