



WASTEWATER TREATMENT Public Works Academy

Objectives: To provide the student with an overview of wastewater treatment. Discuss sources of wastewater and explain the purpose of treatment. Provide a general overview of the common unit process – their purpose and how they work. Also discuss the various types of jobs available and related job requirements.

- I. Instructors Introductions
 - II. What is Wastewater
 - Domestic
 - Industry
 - Storm water (Inflow & Infiltration)
 - Organics
 - Inorganics
 - III. Wastewater Treatment
 - Why do we treat wastewater?
 - Protect Public Health
 - Protect the environment
 - IV. Stages of Treatment
 - Liquid
 - Preliminary
 - Primary
 - Secondary
 - Advanced
 - Disinfection
 - Solids
 - Thickening
 - Dewatering
 - Management Options
 - Incineration
 - Landfill
 - Compost
 - V. Video- Natures Way
 - VI. Types of Jobs
 - Process Operator - (Operator)
 - Maintenance Operator
 - Maintenance Operator Assistant –
 - Electrician
 - Instrumentation
 - VII. Plant Tour of Williamsburg Treatment Plant
- Lunch**
- VIII. Pollution Prevention and Water Quality.
(Group will split into 2 groups for exercises)
Pollution Prevention- Sampling of business and industries and testing exercise
Water Quality Sampling of fresh water and analysis exercise
 - VIII. Question and Answer Period