Detecting Septic System Failures

6.0 hours to CEHPs & Master/ Registered Septic Tank Contractors

Course is approved at Master Contractor level SC0400

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Instructor: Dr. Sonia Cruz, Ph.D., C.E.H.P.

7:15 am Registration, Introduction, and pre-test.

7:30 am Wastewater Characteristics:

 Residential and commercial wastewater characteristics;

 What is High Waste Strength and what are the effects on septic systems;

 Calculation of biological load on a system;

 Typical effluent quality for various pretreatment units.

8:30 am Pretreatment and troubleshooting:

 Aerobic units for treatment of domestic sewage waste

Secondary treatment systems

Performance-based treatment systems for onsite wastewater treatment

9:30 am Break

9:45 am Diagnostic tools will be discussed and problem solving techniques:

 Residential evaluation checklist

Tools needed to collect samples and errors due to sampling

Measuring settleable solids

Problem diagnosis in aerobic units

10:45 am Troubleshooting tips and problem solving techniques

 Problems with design of disposal systems and construction materials.

 Drainfield Failure analysis-root clogging, etc.

 Problems with construction of disposal systems

11:45 am Lunch

12:15 pm What you need to know before repairing an onsite wastewater treatment and disposal system

 Case scenarios will be analyzed for different types of systems

2:15 pm Post test

2:45 pm Distribution of course evaluations & attendance certificates

Note**: Students should bring an engineer scale and a calculator to class**. The post-test shall consist of 20 questions in closed book format for Master Contractors, all others are allowed to use class notes. Half hour maximum is given to complete test. Passing score is 70%. A participant who does not score at least 70% on the post test will be allowed one test retake.

Detailed Course Description:

The purpose of this course is to help onsite wastewater professionals and others understand the process and benefits of diagnosing failures in onsite wastewater treatment systems and possible repair solutions.

Total number of classroom hours: 6

Speaker Qualifications: Sonia Cruz, Ph.D., CEHP 4(B), Bachelor of Science, Master in Biology and Doctorate in Marine Sciences, 17 years Department of Health Onsite Sewage Program experience, and 18 years academic experience as a University of Puerto Rico Associate Professor in Biology.