

# Basics of Onsite 101 Distance Learning Course Outline

## Course Syllabus

On-site sewage systems are systems designed to treat and dispose of wastewater for structures and establishments that are not served by public sewer. Until the last 15 or 20 years such systems have been considered short-term, temporary systems, systems to only be used until sewer was extended to take the wastewater.

This course is a self study, distance learning course that is modularized into 6 modules and a final course assessment module. The average learner will take 1.0 to 1.5 hours to work through each module reviewing the online presentation and using a comprehensive study guide companion document that is downloaded and printed by the participant. In addition, each module includes an integrated assessment tool to provide immediate feedback on key learning points.

Learners will earn 7 contact hours or .7 CEU as calculated by the International Association of Continuing Education and Training organization (IACET) for complete ion of the program.

## Course Outline:

### **Module 1:**

Module 1 reviews and explains Industry terms and definitions common to the On-site industry and foundational information about the basic function and operation of decentralized wastewater management.

### **Module 2:**

Module 2 builds on the previous information and outlining the relationship of the industry segments that have evolved to support the agency and regulatory management infrastructure. A review of the administrative code that guide state and local decision making for implementation of onsite technologies is also covered in this module.

### **Module 3:**

Module 3 begins the basic discussion of the Microbiology that is described in more detail in other classes of wastewater makeup that are involved in treatment process of wastewater. Information in the study guide, goes into more detail on public health concerns of pathogens and their exposure to the public, their persistence in the environment and how On-site systems effectively treat through final disposal components.

# Basics of Onsite 101 Distance Learning Course Outline

## **Module 4:**

Module 3 characterizes residential waste flows, but it is the soil discussion and review in module 4 that describes process for the final treatment component that removes pathogens and effectively deals with other wastewater constituents along with a brief review of site limiting discussions and how soils drive the designers decisions for drain field sizing and applied technology levels.

## **Module 5:**

Basic math calculations for On-site activities are reviewed and practiced by the learner. Calculations of area and volumes need to be understood and applied to operations and maintenance activities like draw-downs, drain field application rates and sizing in square footage, and pumped volumes and are critical to the practitioner in the On-site field.

## **Module 6:**

Both critical and basic business issues are discussed and reviewed in this module. Issues of certification and licensing to various state and local jurisdictional authorities are reviewed and the process for specific technology and service level certification are explained. Consumer liability, ethics and professionalism are an integral part of any business model and key elements are reviewed.

## **Module 7:**

This module is an assessment module that will provide comprehensive feedback on the learners' successful understanding of key learning objectives of the course on an overall basis. After successful completion of this assessment to a 75% level, the learner will be issued a Certificate of Completion of the distance learning course and approved CEU's as described.