

Basics of Onsite 102- Distance Learning Course Outline

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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 to 20 years, such systems have been considered short-term, temporary systems.

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 8 contact hours or .8 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 begins to review the basic elements of how the wastewater stream is affected by wastewater quantity and quality. It reviews the basic constituents along with defining the typical “ranges” of these elements in wastewater, measured as they work through different stages of the system.

Module 3:

In this Module:

You will learn about conventional systems which represent conventional gravity systems and conventional pressure distribution systems. There are a variety of components that make up each part of the treatment train. The key learning objective of this section is to review information on each of the components that may be part of a conventional system, starting at the beginning of the wastewater stream and working toward final dispersal.

Module 4:

In this Module:

You will learn about both gravity and pressure distribution drainfields, parallel and serial distribution drainfields. You will also review interceptor drains. The objective of this section is to provide information on about both gravity and pressure distribution drainfields and the components that may be part of these systems

Module 5:

In this Module:

You will learn about Public Domain and Alternative systems, typically used when soil conditions will not permit the installation of a conventional gravity or pressure distribution system. The objective of this section is to provide information on Public Domain and Alternative systems, and also explain how these systems may also be used if the designer desires to enhance pretreatment provided by a septic tank, to replace the septic tank, to replace the gravel in a drainfield, or to separate black water from grey water.

Module 6:

In this Module:

You will learn about ATU's – Aerobic Treatment Unit and Glendon BioFilters, typically used when soil conditions, restrictive layers or high water table will not permit the installation of a conventional septic system. The objective of this section is to provide information on ATU's and Glendon BioFilter Systems, demonstrate why they are used and what their performance characteristics are.

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.