

Septic Tanks

Module Perspective

1. What is the topic?
2. Who is (are) the audience(s)?
3. What is the course goal?
4. What are the learning objectives?
5. What are you trying to cover?
6. How do you plan to do this?
 1. The topic is septic tanks.
 2. The audience is onsite/decentralized practitioners: system designers, installers, pumpers, regulators and maintenance personnel.
 3. The course goal is to provide information on the first pretreatment component of small scale wastewater treatment systems to help practitioners make informed decisions.
 4. After participating in this module, students will:
 - a. Be able to describe the physical, chemical and biological processes that occur in septic tanks and understand the importance of the processes in wastewater treatment.
 - b. Know the parameters used to size septic tanks for various facilities, understand the importance of adequate capacity, and the value of including appurtenances that improve tank function and increase accessibility for inspection and maintenance.
 - c. Be familiar with materials used to construct tanks, understand the importance of using construction techniques that render structural soundness to tanks, and be able to conduct tests to determine watertightness of completed tanks.
 - d. Know the basic requirements for tank installation and grasp the paramount importance of working safely during that process.
 - e. Know the monitoring/inspection parameters, operation/maintenance requirements for tanks and be able to conduct troubleshooting activities.
 - f. Know the proper procedures used to abandon tanks that are no longer in use.
 5. The topics include septic tank function and processes; design, construction and installation; monitoring/inspection, operation/maintenance and troubleshooting; abandonment procedures.
 6. The materials include a PowerPoint presentation with discussion notes, text and an Instructor's guide. The method of delivery will depend upon the instructor's past experience and teaching method preference