

Water Movement and Soil Treatment 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 Water Movement and Soil Treatment in onsite wastewater treatment systems
 2. The audience is
 - a. Onsite professionals- the instructional module will focus on designers and regulators. The soil treatment video will be at a level that installers will be able to clearly understand the principles.
 - b. All interested parties (systems owners/users, politicians, real estate/lending institution personnel, others) – The review video will be at a level for all these audiences.
 3. The course goal is to provide a clear understanding of water movement in soil and soil treatment for a clearer understanding of the keys of site evaluation, system selection, and design.
 4. The goal of the module is that the participant will be able to:
 - a. Identify and describe the different water movement patterns
 - i. Saturated
 - ii. Unsaturated
 - b. Understand the terminology used in the discussion
 - c. Clearly understand the relationship between water movement in soil and soil treatment
 5. The learning objectives of the course are that the participant will be able to:
 - a. Apply Darcy's law to saturated water flow
 - b. Make better basic decisions related to their understanding of using soil to treat wastewater
 - c. Understand the limitations of soil treatment
 - d. Relate the site evaluation process to soil treatment
 6. Module products
 - a. Instructor materials – syllabus, PowerPoint presentation
 - b. System water movement video (10-15 min)
 - c. AZ water movement video
 - d. Peer reviewed research papers dealing with water movement