

Study Guide
(Or What We Have Seen Consistently Missed on Exam)
This DOES NOT Include All Topics on the Exam – Just Ones
Folks Struggle With
Similar to “Dings” in Level 1

- 1. Daily wastewater flow rate:** two uses of daily flow and how is it calculated
 - a. Determine minimum capacity for septic tank
 - b. Determine square footage for absorption system
 - c. DO NOT USE SEPTIC TANK CAPACITY TO DETERMINE SIZE OF DRAINFIELD!! USE DAILY FLOW!**
- 2. Non-domestic wastewater:** What is it, and why is it important?
- 3. Understand how to use TABLE 2 – MINIMUM SEPARATION DISTANCES IN FEET (including footnotes) – Also referred to as set back or isolation distances**
- 4. Allowable perc test ranges for:** Standard Trenches
Deep Wall Trenches and Seepage Pits
Absorption Bed
- 5. Minimum depth to ground water:**
Standard trench and bed
Deep wall trench and seepage pit

6. Two different ways of determining when a septic tank should be pumped

7. *Minimum* design guidance:

- a. Size of septic tank
- b. Area of absorption system: residential and non-residential (footnotes!)
- c. Separation distances between trenches: standard and deep wall

8. Additional amounts for a bedroom after minimum: 1) for daily flow; and 2) for septic tanks (THEY ARE DIFFERENT!)

9. Two mandatory uses of effluent filters in conventional systems

10. Riser guidance for septic tanks; also diameter depending on depth of bury

11. Depth of bury for septic tanks

12. Slope requirements for: 1) Building sewer; 2) Effluent sewer; and 3) Drain field laterals

13. Absorption beds

a. Allowable percolation test range!

b. How to use Tables 5 and 6 to size absorption bed (WHAT COLUMN DO YOU USE?!)

c. How to lay out an absorption bed

d. Use of chambers in an absorption bed

14. Depth of suitable soil required below the **DISTRIBUTION** pipe in a deep wall trench
15. Trench separation distances when using area between trenches for replacement area
16. ***Understanding***: Drain field reductions allowed for non-residential systems: garbage grinders and automatic washers
(DO NOT REDUCE DAILY FLOW RATE FOR THE SIZE OF THE SEPTIC TANK)
17. Adjustment of depth of trenches on sloping sites
18. Corrective action for a trench wall smeared during construction
19. Know when to round up answers
20. Understanding of the difference between *reduction factor* and the use of a *multiplier* to calculate drain field size using the reduction factor
21. Recommendations for use of pressure distribution in conventional systems
22. Specific requirements for when plot plans and specifications are required, according to R317-4

- 23. Design width – Type A vs. Type B chambers**
- 24. Plot plans** – refer to regulations for what should be included on a plot plan
 - a. Think about Level 1 information
 - b. Think about critical information
- 25. Graywater: Branched Drain Basin** – know how to design
- 26. Answer the question that is actually asked**
- 27. Definitions:** If a question asks for a definition, where would you find it in R317-4?
- 28. Design sheets during exam** – USE 'EM!
- 29. Don't forget to include units!** For example, inches, feet, gallons per square foot, etc.
- 30. Don't take copies of the exams.** We will grade them before you leave so you will know if you passed.

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