

	MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES ONSITE WASTEWATER TREATMENT PROGRAM REGISTERED OWTS PROFESSIONALS CEU EXERCISE	FOR DHSS USE ONLY
		Date Paid:
		Check # and Amount

What you know off the top of your Head – Questionnaire #122

1.0 General CEU with a passing grade - \$15.00 Fee

**February 2015
 Fee: \$15.00**

To receive **1.0 General CEU**, a check or money order for \$15.00 must be received with this completed Internet Exercise. We will accept business or personal checks, or money orders for payment. We cannot accept credit cards or purchase orders. Make check or money order payable to the Missouri Department of Health Senior Services and mail to: Missouri Department of Health Senior Services, Attn: Fee Receipts, P.O. Box 570, Jefferson City, MO 65102-0570.

I, _____, _____, _____,
 Last First Middle Initial

 Installer ID Number Inspector ID Number Onsite Soil Evaluator ID Number Percolation Tester ID Number

 Signature Contact Phone Number Date

Fax Number _____ Email Address _____

All answers are in accordance with DHSS/DNR Rules and Regulations

- Although fragipan, claypan and bedrock are limiting layers, which one is not a restrictive layer?

- How many general CEUs are needed for the first OWTS professional's registration renewal?

- What is the minimum set-back distance between a building foundation and an absorption field?

- Daily wastewater flows of less than 3,000 gallons to a soil treatment system are regulated by DHSS.
 TRUE / FALSE
- What is the minimum treatment capacity of an ATU? _____
- What is the liquid capacity (in gallons) of a tank with the following dimensions:
 L 8', W 4' and D 5'? _____
- DHSS regulates domestic waste flows to lagoons and soil absorption systems. TRUE / FALSE
- Define vertical separation. _____

- 9. The minimum height requirement for a fence around a lagoon is? _____
- 10. What organization certifies ATUs? _____
- 11. How many lineal feet of dispersal area are required for a four bedroom house with a loading rate of 0.4 using pipe and gravel in a two-foot wide trench? _____
- 12. Developers must seek DNR approval for developments of seven or more lots that are less than five acres.
TRUE / FALSE
- 13. The renewal fee for state registration is? _____
- 14. When should you call, "MO One Call"? _____
- 15. List 3 items that are considered to be personal protective equipment. (PPE)
_____, _____ and _____
- 16. Percolation Testers are trained by DNR and soil evaluators are trained by DHSS? TRUE / FALSE
- 17. What is the minimum **and** maximum trench width for a conventional system?
_____ and _____
- 18. What is the minimum spacing of trenches center-to-center for a conventional system with a two foot trench width? _____
- 19. Lagoons treat wastewater aerobically as well as anaerobically? TRUE / FALSE
- 20. What is the minimum set-back distance between a private well and a septic tank? _____
- 21. List 3 acceptable materials used to construct septic tanks?
_____, _____ and _____
- 22. Give **two** reasons for regulating wastewater treatment? _____

- 23. Soil morphology evaluations describe the physical properties present in a
_____ .
- 24. What does ATU stand for? _____ .
- 25. All onsite systems are exempt from permitting requirements when the lot size is greater than three acres.
TRUE / FALSE
- 26. DHSS administers the Missouri Clean Water Law. TRUE / FALSE

27. What is the minimum set-back distance between a public well and a septic tank? _____

28. How many days do onsite professional have past their expiration date to send in their renewal?

29. What is the minimum size septic tank to be installed for a 2 bedroom house? _____

30. What is the minimum surface area of a lagoon? _____

31. Name one MSO continuing education course approved by DHSS that is not offered at this conference.

32. How often do you have to renew your DHSS registration? _____

33. Sizing of a septic tank is based on volume or treatment capacity? _____

34. List 2 precautions that should be taken when entering a confined space.
_____ and _____

35. What is the minimum size for a holding tank for a single family residence? _____

36. What does TSS stand for? _____

37. Effluent screens are recommended for the inlet side of a septic tank. TRUE / FALSE

38. Primary treatment of wastewater occurs in what component of the OWTS? _____

39. The scum layer inside the septic tank is made from what?
_____ and _____

40. Sand, silt and clay help define soil _____.

41. The maximum slope of a lagoon embankment must be no steeper than _____ horizontal to _____ vertical.

42. Give 2 ways, other than PPE, to protect yourself from exposure to wastewater and contaminants in the soil around an OWTS. _____ and _____

43. Dosing shall be provided when the design sewage flow requires more than _____ lineal feet of distribution line.

44. An IVb soil group is considered suitable / provisionally suitable / unsuitable. (circle one)

45. What is the minimum size for a grease tank per 19 CSR 20-3.060? _____
