

Advanced Onsite Installer Select CEU Subject Matter Criteria

DHSS approved CEUs meeting any select criteria would also receive general CEUs.

- Soils: interpreting information on soil morphology evaluation reports, recognizing site/soil limitations, understanding suitability for advanced or alternative OWTS, installation procedures that protect the soil resource, use/placement of imported soil, soil suitability, soil water movement, surface and groundwater drainage systems, and erosion control/management
- Slope/Evaluation measurements
- Sewage pipe standards and pipe bedding practices
- Sewage Tanks: tank installation requirements, bedding methods for tanks, practices to ensure watertight tank connections and risers, ATU function and installation, purpose and installation of inlet and outlet devices, types and selection of effluent screens, grease tank requirements, and holding tank requirements
- Advanced Pretreatment Systems: composition of wastewater, function of advanced treatment systems, media filter installation, wetland installation
- Advanced Distribution Methods: pressure distribution, timed and demand dosing, and installation/operation of dosing controls and alarms
- Advanced Alternative Soil Treatment Fields: construction planning for alternative systems, site layout for alternative systems, installation of low-pressure pipe systems, installation of subsurface drip irrigation systems, and installation of mound/at-grade systems
- Operation & maintenance of advanced or alternative OWTS components
- Troubleshooting: homeowner use of system (questions/interview), flow rates/metering, infiltration/inflow, soil limitations, surface/subsurface drainage issues, tank malfunctions, effluent screens, advanced pretreatment system malfunctions, gravity and pressure distribution problems, and soil treatment concerns
- Math: minimum sizing for advanced or alternative OWTS components and field, effluent pump capacity calculations, and pump selection

Half Credit Select CEUs:

The following subject matters that are specific to onsite wastewater may be awarded up to half select CEU for each general CEU awarded on a case-by-case basis. The select credit will be awarded to each applicable select criteria.

- Health: pathogens in wastewater, health effects of exposure to wastewater, how to protect against health risks
- Safety: chemical hazards, electrical hazards, confined space hazards, excavation and trench safety, OSHA
- Product/Equipment: training specific to new products or equipment

General CEUs (No Select): General topics below will be accepted as they pertain to onsite wastewater. These classes are not specific to the field and therefore will not receive select credit (only receive general).

- First aid, CPR, and other general safety topics such as cleanup, storage, or disposal of hazardous substance
- Local onsite ordinances
- Missouri Onsite Wastewater Laws, registration/licensing requirements, and standards of practice (19 CSR 20-3.080)
- Other Agencies:
 - General – watershed and groundwater protection
 - DNR – Residential Housing Development Rule or Land Disturbance
 - Missouri One Call – utility locate requirements
 - EPA – decentralized (OWTS and/or cluster systems) management, Clean Water Act related to OWTS and decentralized systems