

Development of Course to Meet Criteria of SB 687 Exemption: Recommendations For Course Providers

Recommended topics to cover :

- SB 687- Review of this Senate Bill. What does this exemption actually cover?
- Difference between SB 687 and Level D certification as a well contractor
- County requirements- County may have separate/additional requirements for pump installers such as registration with the county
- Components of the “Well Head” and what they do (Seal, Pump Installation Information Plate, Vent...)
 - 2C. 0107(j)(3)- Pump Installation Information Plate
 - required information, allowable materials, how to properly locate/attach one on casing
 - 2C.0300 definition of “Well Seal”
 - Different types of well seals (show pictures, physical models good too)
 - How to install or remove a well seal properly without losing the pump down the hole
- 2C .0100- Well Construction Standards, Rule .0109- Pumps and Pumping Equipment
- 2C .0100- Well Construction Standards, Rule .0111- Disinfection of Water Supply Wells
- How to disinfect a well-
 - How can contaminants be introduced into a well system? (dragging pump and piping on ground through doggie doo, bugs getting in through open vent, equipment not sterile even right out of the box...)
 - Why disinfect? (Overview of different bacteria that make people sick. Can also contaminate neighboring wells that pull from same aquifer)
 - Types of disinfectants allowed (not bleach, no fungicides, no algaecides...)
 - How to calculate appropriate amount of disinfectant to use for different sized wells for the right concentration per 2C rules (do the math)
 - How to actually do the disinfecting. (show photos doing this in the field)

going beyond the basics...

- Proper pump placement for different types of well systems
 - Where is water coming into the well, and at what rate? What is peak demand? Place pump to encourage turnover of water so dead zone not created. Why- so growth of bacteria not encouraged, so not pulling extra grit into the pump...
 - How to actually put the pump in the well- equipment & materials used. What is the pump suspended/secured with? What is a “pump shroud” and should I use one?
- Overview of Pumps- Shallow Suction, Deep Jet, Submersible..
- Proper pump sizing & why it’s important (discussion & do the math)
- Contracts- basic components, why important (use to clarify to homeowner what they are actually getting, as opportunity to show the value of your service, protects both parties from misunderstanding of service/material to be provided)

Recommended materials to provide attendees: (available on www.ncwelldriller.org)

15A NCAC 2C .0200, 15A NCAC 2C .0300, SB 687, Chart “Difference between SB 687 and Level D certification as a well contractor”, etc...