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GPR Class Outline

Operating principles of a GPR instrument:

1) Brief history
2) Applications of GPR Technology
3) GPR is a powerful tool for noninvasively imaging the subsurface
4) Site conditions that control GPR imaging capabilities
5) Electromagnetic properties of materials and it impact on GPR imaging
6) Understanding and interpreting GPR image profiles
7) Limitations to GPR imaging
8) Application to subsurface utility locating
9) Basics of data processing
10) How GPR technology compliments EM locating technology

How to use GPR Instruments:

1) Learn and demonstrate operating proficiencies with GPR instruments
2) Field operation with GPR instrument First Field Project How does GPR imaging compliment EM locating efforts?
3) Objective(s) determine best approach to GPR imaging project
4) Accessibility GPR and EM differences
5) Standard GPR search patterns
6) Documentation of findings How? and Why?

Conducting GPR Imaging projects:

1) Discussion of GPR best practices
2) Utility locating GPR imaging field projects

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3) Qualitative GPR imaging projects paint on the ground
4) Quantitative GPR projects discussion
    a) Line projects
    b) GPR response maps
    c) GPR response 3D models
5) Basic GPR Data processing
6) Field training, exercises and discussions
7) Field training and independent team field projects will be conducted.
8) The project results for each field project will be jointly discussed by all participants to determine best project interpretations and practices.
9) How can improvements be made in the implementation of the field project
10) Discuss how to most effectively transmit GPR project results to your management and your client(s).

Review of certification requirements and then a written and hands-on certification testing:

1) Staking University's Hands-on Instrument Certification Test assesses the individual locator's competency, regardless of instrument or utility located. To pass, a Staking University student must demonstrate that they have a command of the GPR instrument by performing in three areas of concentration as listed below:
    a) General knowledge of the GPR instrument
    b) Ability to independently access the likelihood of successfully conducting a GPR imaging survey for utility targets in the field.
    c) Ability to interpret GPR image survey results from a field project

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