National Certification Standard for Ground Source Heat Pump Personnel

Geothermal Heat Pump Consortium
dba Geothermal Exchange Organization (GEO)

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REFERENCES

• DOE OFFICE OF SCIENTIFIC AND TECHNICAL INFORMATION
  o http://www.osti.gov/scitech/biblio/1116539

• GEO WEBSITE / REGULATORY MENU
WHAT

Create a national certification standard for all primary personnel involved in the installation of ground source heat pump (GHP) systems
WHY

• Increase customer confidence in the technology
• Reduce the potential for improperly installed systems
• Assure product quality and performance
WHO

* And Many Other Stakeholders
HOW

* Identify separable job tasks
* Qualifications
* Knowledge (Education/Experience)
* Skills
* Abilities
HOW

* Some do more than 1 task
* Some tasks not always used
* Combine tasks into training/certification groups
Figure 3.1 GHP Personnel Qualifications

4.1 Project Manager

4.2 Engineer/Designer

4.3 Thermal Prop. Tester

4.4 Commissioning Agent

4.5 Vertical Loop Driller  4.7 Grouter  4.8 Looper

4.6 Horizontal Directional Driller  4.7 Grouter  4.8 Looper

Horizontal Loop Trench

Lake/Pond

4.9 Water Well Driller  4.10 WW Pump Installer  4.8 Looper

4.11 Mechanical System Installer

4.12 O & M Technician

4.13 Inspector/Regulator

4.14 Trainer

Start  Project Timeline  Finish
FUTURE PLAN

Continued collaboration with industry stakeholders to incorporate the standard into existing training and certification programs
FUTURE PLAN

Encourage Federal agencies to incorporate standard personnel qualifications into project planning and execution.
FUTURE PLAN

Solicit State regulatory agency adoption of guidelines for GHP training and certification
FUTURE PLAN

Support ongoing GHP industry efforts to coordinate stakeholder curriculum development, training and certification
Questions?

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