GEOTHERMAL VERTICAL LOOP INSTALLER TRAINING OUTLINE
2012 - Two-Day Training Programs

Course Topics:

Drilling Methods for Geothermal Vertical Loop Installations

Thermal Enhanced Grouts: Requirements and Procedures

Learn how a Site Survey can Increase Your Profits

How to Conduct a Site Survey and What Documentation is required

How a Geothermal Heat Pump (GHP) Works

- GHP System Components and How they Function
- Learn about Basic Refrigeration - The Foundation of GHP Operation
- How to Calculate the Optimum Operating Water Flow Rate for Efficiency
- How to Calculate the Amount of Heat Available in the Ground For Extraction/Rejection

Closed Loop Design Basics - How Is Ground Energy Transferred - Ground To Building and Back Again

- Flow Controller
- Parallel vs. Series Configurations
- Header Design
- Inside Piping
- Vertical Loop Piping Installation & Testing
- Closed Loop Pressure Drop Calculations

Flushing the Earth Loop - In many ways the "Most important part of the Installation Process"

- Learn The Proper Flushing Procedure and How It Can Make Your Job More Profitable; Typical Flush Carts, Valve Positioning and Flushing, Antifreeze Selection & Charging, Pump Replacement Procedure

Computer Design Basics - GeoDesigner Software Overview

Drillers Who Successfully Complete the Two-day Training May Obtain the Following Certifications / Recognition:

- ClimateMaster Certificate of Participation (Test Required)
- Membership in ClimateMaster's Preferred Vertical Loop Installer & Dealership Network
- Listing on ClimateMaster's Find-a-Preferred Driller Website
- Socket Fusion Certification
- Access to ClimateMaster's GSHP Loop Installation Experts

INSTRUCTOR:

The course is taught by Dave Pergel, a ClimateMaster Lead Trainer and Senior Field Systems Engineer. Dave has drilled and installed Ground Source Heat Pump HVAC systems for over twenty years.

American Ground Water Trust
Ground Water Education Since 1986
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