IGSHPA Accredited Geothermal Installer Certification

This training course is a three day comprehensive course focused on the installation of geothermal heating and cooling systems. The course includes an open book exam to become an IGSHPA Accredited Geothermal Installer.

Course content includes the following:

- Three days of expert instruction from trainers who want to help you get into the industry.
- Fundamentals to build a strong foundation in the *how* and *why* of properly designed and installed geothermal heat pump systems.
- Progression into advanced topics to teach selecting, sizing and designing the GSHP system adeptly.
- A directory listing of your contact details on both the IGSHPA and HeatSpring websites.
- Access to networking opportunities with professionals in a range of supporting areas of service.
- Books, field guides and system calculators.
- Hands-on pipe fusion lesson.
- Coffee, breakfast and lunch on all three seminar days.
- A one-year IGSHPA membership.
- Discounted room rates at site hotel.

Who should attend:

Attendance is generally made up of HVAC contractors, drillers, builders, plumbers, engineers and contracting business owners looking to take advantage of the huge market growth happening in the geothermal industry. If you have little to no background in a comparably skilled building trade but are interested in joining the industry, you might consider taking one of our beginner online trainings in advance of this classroom training.

What people like most about the course:

- Learning to design & install geothermal heat pump systems for homes and buildings from A to Z.
- In-class exercises and hands-on activities to teach selecting, sizing & designing the heat pump system.
- Earning an important industry accreditation (IGSHPA) that gives you access to markets where the accreditation is required.
- Receive books, field guides and system calculators to take on your next job.
- Taking away best practices from an instructor with real, on the job experience.

Meet the instructor:

Charles Remund
Geo-Connections, Inc. PhD, CGD

Dr. Remund has over 20 years of experience installing and designing geothermal systems. He has been a certified instructor for IGSHPA since 1994. He has been on the Mechanical Engineering faculty at South Dakota State University since 1988, where he teaches thermodynamics, heat transfer, fluid dynamics, design of thermal systems and applied laboratory courses. He is a co-author of the IGSHPA geothermal installer training manual titled “Design and Installation of Residential and Light Commercial GSHP Systems”.

Dr. Remund has been principle investigator on many research projects associated with ground source heat pumps, specifically addressing heat transfer characteristics of grouting materials, soil and rock. He worked with regional electric utilities and the Geothermal Heat Pump Consortium through the Northern Geothermal Support Center at SDSU, through which hundreds have been trained in various aspects of ground source heat pump design and installation. Training and outreach activities continue in a limited capacity at SDSU, while Dr. Remund has become involved in private efforts to promote ground source heat pumps through design assistance, soil and rock formation thermal conductivity testing, and technical support for thermally-enhanced grouting materials.

March 15, 16, 17 – 2010
Mon. - Wed.
7:45 am – 5:00 pm each day

TRAINING COST

Regular Price:	$ 950
Discount:	- $ 100
Early Bird Price:	$ 850

Early Bird Discount Price
Expires February 14, 2010

TRAINING LOCATION
Utah Natural Resources Bldg.
Training Room
1594 W. North Temple
Salt Lake City, Utah 84114

INFO & REGISTRATION
Sound Geothermal
Corporation
801-942-6100

International Ground Source Heat Pump Association (IGSHPA) Accredited Geothermal Installer Certification

March 15, 16, 17 – 2010

Day 1

07:45 am – Registration and light breakfast
08:00 am – Introduction and Overview
10:00 am – Break
10:15 am – Economics, Marketing and Demand Reduction
12:00 pm – Lunch – in house, provided by Sound Geothermal Corporation
01:00 pm – Soils Identification, Thermal Conductivity
02:30 pm – Break
02:45 pm – Selecting, sizing, and Designing the Heat Pump System
04:30 pm – Questions and Answers/Review

Day 2

07:45 am – Registration and light breakfast
08:00 am – Designing the Ground Heat Exchanger
09:45 am – Break
10:00 am – Designing the Ground Heat Exchanger (cont.)
12:00 pm – Lunch – in house, provided by Sound Geothermal Corporation
01:00 pm – Grouting Procedures for Ground Source Heat Pumps
03:30 pm – Break
03:45 pm – Pipe Joining Methods (w/ hands on fusion activity)
04:30 pm – Questions and Answers/Review

Day 3

07:45 am – Registration and light breakfast
08:00 am – Installation of the Ground Source Heat Exchanger
09:15 am – Break
09:30 am – Flushing and Purging the System
10:45 am – Heat Pump System Startup and Checkout
12:00 pm – Lunch – in house, provided by Sound Geothermal Corporation
12:30 pm – Brief overview of the Utah Market Residential and Commercial
01:15 pm – Review and Questions
01:30 pm – Certification Test – Open Book, (Allowed two hours)