

# IGSHPA Installers Training Course PLUS\* Schedule

Todd Giddings, Ph.D., P.G., IGSHPA Accredited Trainer

## Day 1

7:30 am Continental Breakfast (provided)  
8:00 am **Welcome** – A Preview of This Course  
8:15 am **Lesson 1** - Introduction and Overview  
9:45 am **Lesson 2** - Economics, Marketing, and the new Federal Tax Credits  
10:00 am Break (provided)  
10:15 am **Lesson 2** - Economics, Marketing, and the new Federal Tax Credits (continued)  
10:30 am **Lesson 3** - Soil and Rock Identification and Thermal Conductivity  
11:30 am **Lesson 4** - Selecting, Sizing, and Designing the Heat Pump System  
12:00 pm Lunch (provided)  
1:00 pm **Lesson 4** - Selecting, Sizing, and Designing the Heat Pump System (continued)  
2:30 pm **Lesson 5** – Designing the Ground Heat Exchanger  
3:00 pm Break (provided)  
3:15 pm **Lesson 5** – Designing the Ground Heat Exchanger (continued)  
5:30 pm End of day one

## Day 2

7:30 am Continental Breakfast (provided)  
8:00 am **Lesson 5** – Designing the Ground Heat Exchanger (continued)  
8:30 am **Lesson 6** - Installation of the Ground Heat Exchanger  
10:00 am Break (provided)  
10:15 am **Lesson 6** - Installation of the Ground Heat Exchanger (continued)  
11:00 am **Lesson 7** - Grouting Procedures for Vertical Boreholes  
12:00 pm Lunch (provided)  
1:00 pm **Lesson 7** - Grouting Procedures for Vertical Boreholes (continued)  
2:00 pm **Lesson 8** - Interior Piping Design and Circulator Pump Selection  
3:00 pm Break (provided)  
3:15 pm **Hands-On Pipe Fusion Training**  
5:30 pm End of day two

## Day 3

7:30 am Continental Breakfast (provided)  
8:00 am **Lesson 9** - Flushing and Purging the System  
9:00 am **Lesson 10** - Heat Pump System Startup and Checkout  
9:30 am **\*PLUS Lessons** – Bonus lessons beyond the IGSHPA course content  
10:00 am Break (provided)  
10:15 am **\*PLUS Lessons** – Bonus lessons beyond the IGSHPA course content  
12:00 pm Lunch (provided)  
1:00 pm **\*PLUS Lessons** – Bonus lessons beyond the IGSHPA course content  
2:15 pm **Review Lesson**  
2:45 pm Break (provided)  
3:00 pm **NATE Open Book Exam** - (2 hours)  
5:00 pm End of exam period and day 3