



IGSHPA Drillers Training Course PLUS* Schedule

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Hosted by Schramm, Inc.

Monday, February 22, 2010

- 7:15 am Shuttle bus from hotel to Schramm, Inc.
- 7:30 am Continental Breakfast courtesy of Schramm, Inc.
- 8:00 am **Welcome** - Introduction to Schramm, Inc.
- 8:15 am **Lesson 1** – Course Introduction and Overview
- 10:00 am Break
- 10:15 am **Lesson 2** - Economics, Marketing, and the new Federal Tax Credits
- 11:15 am **Lesson 3** - Soil and Rock Identification and Thermal Conductivity
- 12:00 pm Lunch courtesy of Schramm, Inc.
- 1:00 pm **Schramm Factory Tour**
- 2:45 pm Break
- 3:00 pm **Lesson 4** - Selecting, Sizing, and Designing the Heat Pump System
- 4:30 pm **Lesson 5** - Designing the Vertical Ground Heat Exchanger
- 5:00 pm End of day one training course
- 5:15 pm Shuttle bus to hotel
- 6:00 pm Dinner in the hotel courtesy of Schramm, Inc.

Tuesday, February 23, 2010

- 7:15 am Shuttle bus from hotel to Schramm, Inc.
- 7:30 am Continental Breakfast courtesy of Schramm, Inc.
- 8:00 am **Lesson 5** continued
- 10:00 am Break
- 10:15 am **Lesson 6** - Installation of the Ground Heat Exchanger
- 12:00 pm Lunch courtesy of Schramm, Inc.

Tuesday, February 23 continued

1:00 pm **Lesson 7** - Grouting Procedures for Vertical Boreholes
3:00 pm Break
3:15 pm **Hands-On Pipe Fusion Training**
5:00 pm End of day two
5:15 pm Shuttle bus to hotel

Wednesday, February 24, 2010

7:15 am Shuttle bus from hotel to Schramm, Inc.
7:30 am Continental Breakfast courtesy of Schramm, Inc.
8:00 am **Lesson 8** - Interior Piping Design and Circulator Pump Selection
8:30 am **Lesson 9** - Flushing and Purging the System
9:00 am **Lesson 10** - Heat Pump System Startup and Checkout
9:30 am **Lesson 11** - GeoExchange Drilling Project Costing and Bidding
10:00 am Break
10:15 am **Lesson 11** - continued
11:30 am ***PLUS Lessons** - Bonus lessons beyond the IGSHPA course content
12:00 pm Lunch courtesy of Schramm, Inc.
1:00 pm ***PLUS Lessons** - Bonus lessons continued
2:15 pm **Review Session**
2:45 pm Break
3:00 pm **IGSHPA Open Book Exam** - (2 hours)
5:00 pm End of test period
5:15 pm Shuttle bus to hotel

