Geothermal Driller Pre-Apprentice Program: Sample Curriculum

- Intensive training from Basic to Advanced Geothermal Borehole Completion
- 80 hours / 2 weeks
- Contact workforce@heet.org with questions or for support (e.g. transportation, childcare, translation)

**Day 1**: **Class**: Introduction to Geothermal; **Drilling Lab**: Site Hazard Identification and Tactics

**Day 2**: **Class**: Geothermal Equipment & Purpose; **Drilling Lab**: Rig Components & Controls

**Day 3**: **Class**: Fundamentals of Drilling Methods; **Drilling Lab**: Drilling 101

**Day 4**: **Class**: Solid ID & Drilling Method Selection; **Drilling Lab**: Water Based Drilling Fluids

**Day 5**: **Class**: The Science of Drilling - Math, Physics, & Gut Instincts; **Drilling Lab**: Borehole Completion

**Day 6**: **Class**: Air Rotary & Down the Hole Hammers; **Drilling Lab**: Drilling with Air

**Day 7**: **Class**: Understanding Subsurface Information; **Drilling Lab**: Drilling Programs

**Day 8**: **Class**: Loops & Grouting Programs; **Drilling Lab**: Loop & Grouting

**Day 9**: **Class**: Drilling Theory; **Drilling Lab**: Drilling – Loop Prep – Grouting – Fusing

**Day 10**: **Class**: Drilling Project Presentation; **Drilling Lab**: Competency Demonstration & Leadership

Instructor Credentials: Brock Yordy

**Western Michigan University**, Kalamazoo, MI
- **Bachelor of Arts and Sciences**: Groundwater Science, Environmental Science, Environmental Policy, and Sustainability

**Post-College Education and Training**
- Accountability Training, Myers-Briggs, Scaling Up Excellence, DISC System, and Extreme Ownership

**Technical Training and Certifications**

**Statement of Qualification**
- 25 years of experience in technical execution on global drilling, water, and construction projects.
- OSHA Authorized Trainer – Northern Illinois University - Minnesota Safety Council 2021
- In-depth experience in global water, construction, & geothermal drilling, advanced methods, & well completion.
- Companies: Halliburton, Laibe, GEFCO, SUEZ NA, Veolia, Barrick, Layne, Major, BHP, US Military
- Extensive experience in large-scale geothermal projects from East to West Coast.

Are you interested in a career in geothermal drilling? Scan to learn more.