

Geothermal Drilling Intensive: Sample Curriculum

- Intensive education from *Basic* to *Advanced* Geothermal Borehole Completion
- 80 hours / 2 weeks
- Contact info@gdadrillers.org with questions or for support (e.g. transportation)

Day 1: **Class:** Introduction to Geothermal; **Drilling Lab:** Site role, responsibilities, & task orientation.

Day 2: **Class:** Construction site safety & expectations. 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

Halliburton Drilling Fluids Degree. Industrial Drilling Certification, Fluids Process & Handling Certification: Solids Control, Construction Drilling, Water Well Completion, Advanced Industrial Drilling Applications, IGSHPA, NGWA.

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, and 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.

