



GCD Boot Camp:
Applied Pump Principles and Hydraulics
January 20, 2026
Embassy Suites, San Marcos
Draft Agenda

Instructor: David Smith, Texas A&M AgriLife Extension Program Specialist III

9:00 AM	Welcome and Overview
9:10 AM	Common Pump Types and Operating Characteristics
9:30 AM	Pump Hydraulics Concepts
9:45 AM	Feet of Head vs Pressure
10:00 AM	Friction Loss Calculations
10:45 AM	Break
11:00 AM	Working Lunch/Total Dynamic Head Calculation
11:30 AM	Cavitation
11:35 AM	Net Positive Suction Head

References

1. Sterrett, R.J. (2007). *Groundwater and Wells* (3rd ed.). PG Johnson Division.
2. Mincey, S. B. (2002). *Basic Water Systems: A Pump and Hydraulic Training Manual*. National Ground Water Association Press.

Participants are welcome to bring any of the above resources to the training.