

## Horizontal Directional Drilling On-Line Agenda

### DAY 1 ON-LINE AGENDA

Overview/Introduction/Agenda (Class Syllabus HE 125 HDD: (pdf)

Reference: Ditch Witch® 1220 Manual (pdf)  
Kansas One-Call Excavator's Manual (pdf)

Lesson 1: Directional Drilling 101 (power point)

Video: Anatomy of a Strike (electrical)

Video: Theory of locating

Video: The Hole Boring Story (directional drilling basics)

Lesson 2: JT 1220 Mach 1 Equipment Walk around

Safety features

Drill components (Drill Photos)

Lesson 3: Trenchless Safety (Power Point)

Kansas One-Call Excavator's Manual (for Kansas only) – Kansas Law (consult local and state law).

5 steps to safer digging toolbox (one-call video)

Lesson 4: Drill Pipe Basics & Maintenance

Lesson 5: UT 750R -Tracking Electronics (power point)

Lesson 6: Pre-Plan Site (power point)

Inspection checklist

Planning Map and checklist form (open site planning and checklist Excel)

Lesson 7 Downhole Tools

Pipe and Downhole Tool Maintenance

Lesson 8: Drilling Fluids-Baroid fluids all (power point)

Baroid Fluids demo (video)

Fluids demo 9 (video)

Ditch Witch® fluid formulator

Soil Classification (soil testing-trench safety video)

## **Day 2 FIELD OPERATION AGENDA**

Review

Hands On: Walk around drill/Safety

Preventative Maintenance

Practice in tube

## **Day 3**

Review

Fluids Mixing

Practice with walking drill/load and unload

Field Operation (Calibration, set-up, anchoring, entry pit, mud mix, hose connection)

Lunch

Field Operation (Pilot Bore Training)

## **Day 4**

Review

Drill Pipe Maintenance

Downhole Tools

Field Operation (Backreamer connection, product pipe connection, backreamer)

Lunch

Field Operation (Cont)

## **Last Day**

All Day Field Operation (Completing multiple set-ups, pilot bores and backreamers)

TBA Graduation