Day 3 Seminar Class Outline

Note: Although Earthwork Software Services **no longer conducts** the Day 3 AGTEK seminar, the Day 3 handbook is **the textbook** that the Day 3 seminar class was taught from and the latest updated edition of the Day 3 textbook can be ordered at **www.earthworksoftwareservices.com/hbk-replace-order.aspx**.

(Morning Class Session)

8:00	Sign-In and Seating
8:30	(Class Begins) Brief Seminar and Documentation Overview
8:40	Modeling Subsurface Strata
	Strata Layers List Entries
	Strata Borehole Entries
	Interpolation Options
	Strata Volume Calculations and Reporting
10:00	Morning Break
10:15	"Stripping" the Upper Strata Material
	Volume of a Strata Seam
	Balancing Onsite Cut and Fill
	Identifying Work Areas with Cut-Fill Lines
	Stripping Area Conflict at Strata Cut
	Model Subsidence Loss at Fill Areas
	Stripping Areas by Cut/Fill Depth
	Waste Areas by Depth of Cover
12:00	Lunch Break (Lunch Provided by Earthwork Software Services)

Day 3 Seminar Class Outline (Cont.)

(Afternoon Class Session)

1:00 Modeling Vertically-Staged Earthwork

Five Approaches to a Soil Undercut

- (1) Transfer Subgrade Utility
- (2) New Surface and Stage Into Utilities (AGTEK 4D)
- (3) Apply Survey Utility
- (4) Stage Over-Ex Utility
- (5) Apply Template Utility (AGTEK 4D)
- 2:15 Afternoon Break
- 2:30 Modeling Vertically-Staged Earthwork (Cont.)

Modeling for Retaining Wall Cut Back

Create Diff Calculation Surface with Lowest Surface Utility

Create Wall Cut Back Model (AGTEK 4D Method)

Apply Template Utility for Cut Back Lines and Staged Wall-Cut Surface

Calculate Cut Back and Backfill Volumes

Backfill Volume by Vertical Interval Option

Measure Wall's Face Area

Rock Undercut Volume (Subtraction Method)

Variable-Depth Removal of Expansive Clay

Use Cut-Fill Line Utility for Removal Transition

Use Stage Over-Ex Utility for Composite Cut Surface

Calculate and Evaluate Volumes

4:00~4:30 Class Adjourns