## AGTEK SEMINAR CLASS OUTLINE

## Day 4: Highway 6:00 am to 3:00 pm (PT)

This training will guide you through cross-section takeoffs, centerline alignments, corridor modeling, and managing highway electronic files.

- Performing highway cross-section takeoffs and generating mass haul diagrams for efficient haul analysis.
- Strategically phasing materials, earthwork, and utility quantities across highway construction projects.
- Enhancing field productivity by delivering geo-referenced, graphical production feedback directly to foremen via AGTEK mobile applications—empowering them with real-time insights on their smartphones or tablets.

Time	Item
6:00-6:30 AM	Welcome: Introduction of presenters and online resources. Training videos, videos, training guides and training files.
6:30 AM-7 AM	Review of Basic Functions (Modes, Menus, Toolbar, hot keys, panning, tracing) Review of finished Project
7 AM-8 AM	Cross Section Takeoff
8 AM-8:15 AM	15 min Break
8:15 AM-9 AM	<ul> <li>Center Line Alignments</li> <li>Vectorizing Center Line from pdf plans</li> <li>Attaching center lines to cross sections</li> <li>Creating corridor model takeoff by surfacing cross sections</li> <li>Aligning PDFs to Center line alignments. Removals, Paving, and phasing.</li> <li>PDF management tools using image selection.</li> </ul>
9 AM-10:00 PM	Highway, Gradework, Materials & Underground Workflow  Classes, structures, and materials for Highway jobs.  Removals, Paving, and Phasing using traffic control plans.  Applying Materials to Sectional and stripping areas.
10:00 AM	End of Block 1. Lunch from 10:00 am to 11:00 am

## AGTEK SEMINAR CLASS OUTLINE

Time	ltem
11 AM- 11:15 AM	Welcome
11:15 AM- 12 PM	<ul> <li>Adding ponds and site takeoff to corridor takeoff mode.</li> <li>Ponds, and site takeoffs.</li> <li>Adding highway stops and starts, entering spoils and borrows to mass haul diagrams, and adding compaction.</li> <li>Roadway intersection clean-up</li> </ul>
12 PM-1 PM	<ul> <li>Electronic Files</li> <li>Center lines: XML, dgn, and other common formats.</li> <li>Cross sections: dgn &amp; dwg, and station offset elevation formats.</li> <li>Corridor models.</li> <li>Generate cross sections from corridor models to check accuracy.</li> </ul>
1:00 PM	15 min Break
1:15 PM-3 PM	<ul> <li>Advanced Examples</li> <li>Over excavation of walls and calculation of backfill.</li> <li>Undercut of unsuitable soils using the cross section staging tool.</li> <li>Mass Haul diagram by Phases of construction</li> <li>Generating Reports.</li> <li>Utilities for Highway jobs.</li> <li>Bid review with Google Earth</li> <li>Horizontal and Vertical COGO for machine control models.</li> <li>Travel way transitions.</li> <li>SmartDirt.</li> </ul>
3:00 PM	End of Block 2.