

AGTEK SEMINAR CLASS OUTLINE

All times in Pacific Time

Day 3: Materials, Underground, Drones, Highway

Block 1: 6:00 am to 10:00 am

Material & Underground

Time	Item
6:00 AM	Introduction to Materials. Tool bars, Modes, Classes, Materials, Structures.
	Materials Takeoff from PDF File
	<ul style="list-style-type: none">• Materials standalone• Erosion control• Demolition• Concrete and paving
6:30 AM- 8:00 AM	<ul style="list-style-type: none">• Removing holes from areas• Reporting• Phasing• Default structure List• Apply structures to stripping, sectionals, and surfaces• Google Earth reports• SmartPlan materials
8:00 AM	15 min Break
	Underground takeoff from PDF file
	<ul style="list-style-type: none">• Underground standalone• Introduction to Underground: Entering pipes, laterals, verticals, and fittings• Trench description• Entering Pipe (Rim-Invert)• Entering Underground from an Earthwork takeoff (Assign rim elevation)
8:15 AM- 10:00 AM	<ul style="list-style-type: none">• Entering laterals, verticals, fittings• Entering water lines• Viewing 3D pipe network• Reports - Depth brackets analysis, trench excavation analysis• Strata excavation quantities• Analyzing pipe conflicts• Apply trenches to surface• Google Earth• SmartPlan
	End of Block 1. Break from 10:00 am to 11:00 am

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Block 2: 11:00 am to 3:00 pm

Drones & Highway

Time	Item
11:00 AM	Welcome
	Drones
	<ul style="list-style-type: none">• Introduction to Dirt Simple RTK drone Solution• Introduction to Pix4D• Introduction to Reveal. classification, cleaning and registration steps
11:15 AM- 1:00 PM	<ul style="list-style-type: none">• Gradework 4D Processing a Drone Topo following the Guide• Importing orthomosaic, point Cloud, setting the limits, digital surface model clean-up, creating contours, and calculating volumes• Registration surveys in Gradework• Volume calculations with multiple Topos• Material takeoff from orthomosaic image• SmartDirt
1:00 PM	15 min Break
	Highway
1:15 PM- 3:00 PM	<ul style="list-style-type: none">• Cross section takeoff from PDF: Calculating volumes, mass haul diagram analysis• Center lines + cross sections= 3D highway takeoff model• PDF management for Highway takeoffs• Paving and demolition• Phasing of materials• Phasing of highway dirt takeoff• Introduction to DOT electronic files• Corridor model takeoff• Generating cross sections from corridor models
3:00 PM	<ul style="list-style-type: none">• End of Block 2.