



**Saving You  
Time & Money**

# **Math for the Construction Industry**

*8-Hour Class Outline*

- ™ Brush up on math skills for higher quality work
- ™ Topics are directly related to the construction industry
- ™ Great for anyone who works with Excel but doesn't understand the mathematical principles used
- ™ Prerequisite: high school math

*"Enlightening...Spectacular...I wish my math teacher in school had made these concepts as clear to me as you have. I finally understand!"—P.S., Project Engineer*

<b>Math Topic</b>	<b>Example of Construction Application</b>
Order of math operations Unit conversion Fractions, decimals, percentages	Economics, financials & basic day-to-day operations
Percentages	Earthwork swell & compaction
Least Common Multiple (LCM), Greatest Common Factor (GCF), ratios & proportions	Cement:water:aggregate mixtures; weighted averages
2D shapes	Perimeter, area, quantity take-off
3D shapes	Volume, surface area, quantity take-off
The common "plus-1" error	Post/fence, column/bay size
Lines, algebra, trigonometry; interpolation, extrapolation	Slope of roofs, stairs, roads, pipes; cost & time projections; surveying; estimating values from charts
Simultaneous equations	Optimization of load vs. haul; time-speed-distance; construction equipment optimization

*Ask how you can save with custom classes*

**T&M Concepts**

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