

# Take-off Professionals

*THE WORLDS LEADER IN DATA  
PREPARATION AND TRAINING.*



## CARLSON TAKEOFF WITH AUTOCAD 2010 FOR SITE TAKEOFFS TRAINING.

*This comprehensive 3 day class will take the user from CAD to a takeoff they can bank on. Eliminate the guess work with the benefit of our experience. Here are just a few of the things you will learn.*

- What you need to know about AutoCAD
  - How files are built by engineers.
  - Delivery methods.
  - What to expect.
  - How to fix issues with files.
- Understanding a Takeoff.
  - Required level of accuracy
  - Shrink and swell, how to get the numbers right.
  - How to think like an estimator.
  - How to think like the field crew.
  - How to read and understand the numbers.
- Making Surfaces.
  - What level of detail do I need?
  - ALL about points. Extensive training in the use of Carlson point commands.
  - Contour lines.
  - Break Lines
  - Curb and gutter, building pads, and parking areas.
  - Verifying the quality of a surface.
  - Job Phasing and break outs.

- Surface Management
- Takeoff Reports.
  - Using Standard Reports
  - Customizing Reports
  - Verifying Takeoff Accuracy
  - Changing Conditions of the takeoff.
  - Mass haul and cycle time analysis
- After the bid.
  - Comparing site topo to original takeoff
  - Making the case for negotiation
  - Incorporation addendums and clarifications into the takeoff.
- Job Progress use for a takeoff.
  - Pay requests.
  - Spot takeoffs.
  - Hard dig requests.

**This training will benefit the user of Carlson Takeoff by providing comprehensive skills. You will know what steps to take to produce bid winning takeoffs you can be confident of. Bring your own projects with you to the class, and work with them. This is not canned training by software engineers. This is an intense learning experience provided by the leaders in data.**

**Cost \$1,500.00**

**Duration 3 Days**

**Visit our web site to see schedules and to sign up. [www.takeoffpros.com](http://www.takeoffpros.com)**

## **TAKE-OFF PROFESSIONALS**

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