

Carlson Takeoff 2009 – Estimating

Duration: 3 Days
Cost: \$1,895/Person

Customized, On-Site Training
Is Also Available



Curriculum and Course Objectives •

Learn and perform exercises on:

- Turn the engineer's "pretty picture" into constructible data
- Cleanup, settings/configs
- Data transfer to 3D/GPS machine control
- Quantities preparation
- Bids/estimate generation
- Advanced point location
- Field-to-finish surveying
- Subdivision layout
- QA/QC-areas, inverses, etc.
- Annotation and drafting functions
- Generating 3D surfaces, TINS/grids
- Intro to data prep
- Generate centerlines/ROWS
- Create EG and PGL profiles
- Develop X-SECs & templates
- Trenching, soil borings
- Create building pads, ponds
- Earthwork takeoffs
- Generate reports

Methodology •

Harken-Reidar, Member of Carlson College, developed the "T.I.E. Training™" methodology used in our training, which stands for **T**ools, **I**magination and **E**xpertise. We have found that successful CADD training is comprised of knowing where the **Tools** of the software are located, and how to use them; engaging your **Imagination** to apply those tools to a task; and having the professional **Expertise** required in order to optimize the tools as they were intended.

Environment •

Class size is limited, which allows for personal one-on-one attention. Each attendee is provided with a training PC in the session to enhance the comprehensive hands-on learning experience for no extra fee. Classes generally run M-F, from 9:00AM – 4:30PM with a lunch hour and two breaks. Harken-Reidar is an **IACET Authorized Training Facility** and strives for a learning environment conducive for training. Certificates and CEU's are awarded at course completion.

Instructors •

Harken-Reidar instructors are experienced industry practitioners and experts in the use of the software for surveying, engineering, mining and construction and are always open to questions on related topics.

Registration •

Contact the Harken-Reidar business office at 540-635-6742 or by e-mail at: info@harken-reidar.com. Be sure to provide all contact information. We accept all major credit cards and payment is due prior to class. Terms and conditions are provided in the registration form.

"Tell me and I'll forget. Show me and I may not remember. Involve me and I'll understand."

Old Native American proverb

Customized, On-Site Training Fee: \$2,000/Day*

We offer these classes to the staff of individual organizations. A Mobile Classroom is available for a separate fee. The systems are configured with current software, data sets and service packs. For details – 540-635-6742.

Class curriculum is often customized specifically to the client's needs and to address any on-going or upcoming project issues. We sometimes refer to this as "Just-In-Time" training.

*Custom training fee does not include travel time or expenses which are extra.

