

GVF TRAINING

INTERACTIVE SIMULATOR BASED TRAINING

GVF TRAINING AND CERTIFICATION PROGRAM

SatProf's award-winning program, in collaboration with GSOA, endorsed by WBU-IMCG (ISOG).

GLOBAL ACCESS

Students practice and demonstrate their knowledge and skills with online, interactive, training modules. Courses are self-paced and available 24/7.

INTEGRATED TRAINING

The GVF Training curriculum can be integrated with your organization's own online and classroom training on a custom portal.

WHY CERTIFICATION?

Certification demonstrates and documents your commitment to peers, employers, customers, and competitors that you use industry standard best practices.

Certificate holders may appear in the *Certification Database* on the GVF Training website.

FOR MORE INFORMATION AND TO REGISTER

www.gvf.org/training



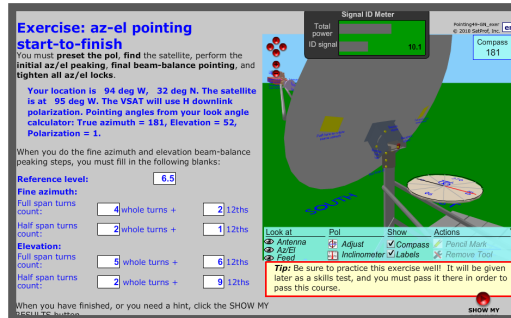
In collaboration with:



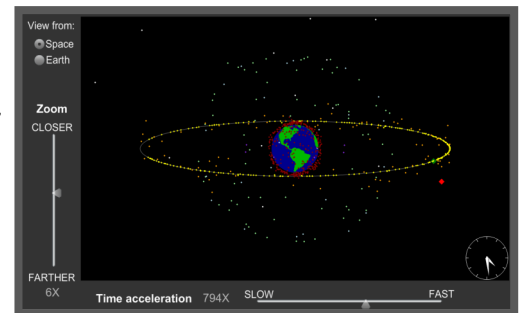
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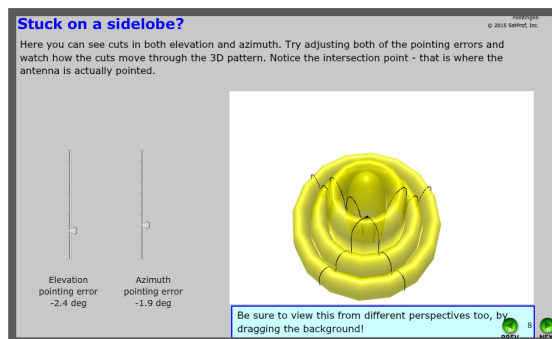
Full 3-D interactive antenna simulator, with operating meter and compass, teaches accurate antenna pointing and evaluates real-world satellite finding and accurate pointing skills for interference prevention. From course GVF 510.



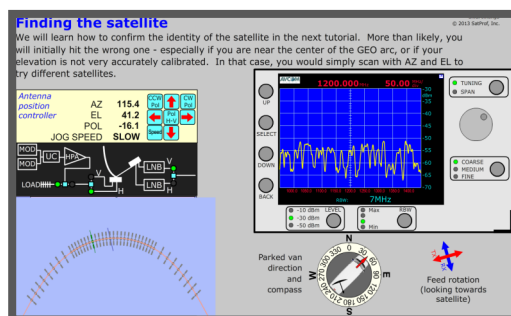
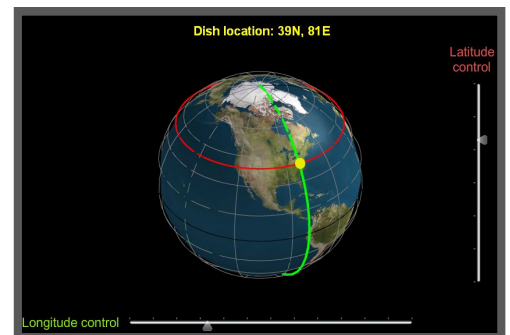
3D orbit simulator computes animated orbits of over 1000 satellites in real time. Student may select class of satellite, time scale, and even choose to view from earth or space. From GVF 500, 510, and other courses.



Antenna sidelobes in 3D. Student may change perspective and explore how the pattern will appear with mispointing in both axes.



3D experimenter for latitude and longitude. The student may also change viewpoint by dragging on the background. From GVF 510, 530, and other courses.

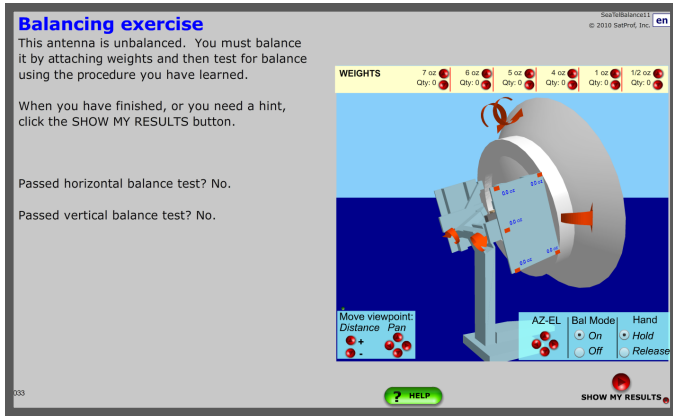


Complete uplink/downlink simulator. Fully-functional spectrum analyzer, working with an antenna positioning controller, correctly displays entire arc of satellites, all fully loaded with signals and beacons, on both polarizations.

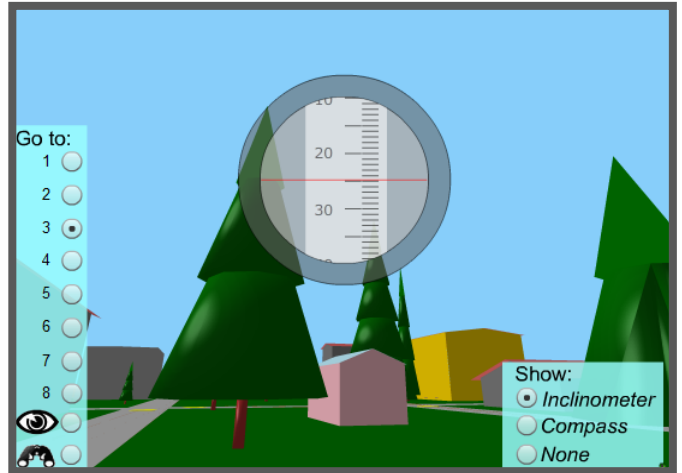
Student first learns skills in tutorials, then may practice, and finally must successfully execute the specified skill (finding the correct satellite) in order to pass. From GVF 532.

Taking GVF Training online is not just a matter of watching videos! Students use **technically-accurate, realistic** simulators throughout all courses to **learn, practice, and demonstrate** critical skills. The GVF Training program is **unique** in that students' **simulator skills scores** are required for successful course completion and **certifications**. These are a few example screen shots of interactive pages from VSAT, marine, and broadcast training courses.

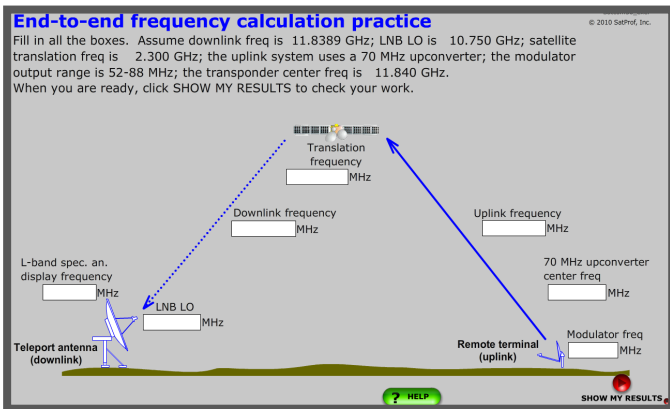
EXAMPLES



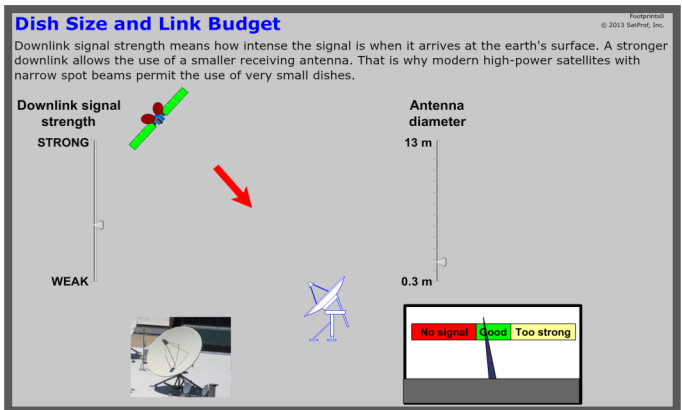
Marine stabilized antennas must be mechanically balanced for best performance. Students learn and practice critical balance adjustment skills using the realistic 3-D interactive simulator, with integrated dynamic inertial physics model. From GVF 503E.



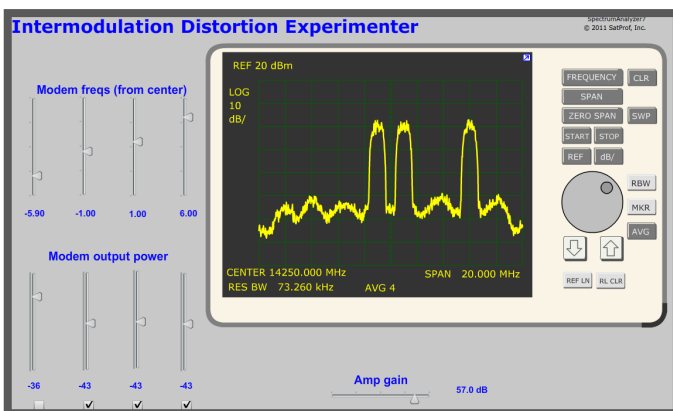
In this "first person" simulator, the student must use a compass and inclinometer to predict which antenna sites will have clear line of sight. The arrangement of trees and buildings is randomized and the simulator computes clearance using ray tracing mathematics.



Operators of uplinking earth stations must know how to compute the RF and IF frequencies at every stage of the link. This assessment randomizes the conditions each time. From GVF 532.



Basic concepts of link budget cost tradeoffs in power and antenna size are made clear with this interactive simulator. From GVF 500 and 520.



The fully-functional spectrum analyzer shows computed spectrum of multiple QPSK signals creating intermodulation distortion products. The simulator uses complex modulation, AM-AM/AM-PM transfer curves, and FFTs to enable the student to explore the true effects of compression, saturation, and frequency spacing.

In this 3-D moving animation of cross-polarized waves, the student may adjust the feed rotation and observe how the polarization plane rotates and causes cross-pol interference if not adjusted correctly. From GVF 510, 531, and other courses.

