

## Get the skills you need to advance your career!

VSATs and broadband Internet satellite terminals are two-way, which means they transmit a microwave signal to the satellite. Installation requires more **advanced skills** than for a receive-only system, and an improper installation can not only degrade the customer's service, it can **cause interference to other users and satellites**. That's why the FCC and the VSAT service providers require qualified installation personnel.

The Global VSAT Forum is the industry's non-profit association, with membership drawn from the major VSAT service providers, satellite operators, and equipment manufacturers. Its mission includes education and training for the industry.

GVF Certified VSAT Installer training gives you the **skills and certification you need** to move up to two-way broadband Internet and commercial VSAT installations.

### The Global VSAT Forum Certified Installer Database

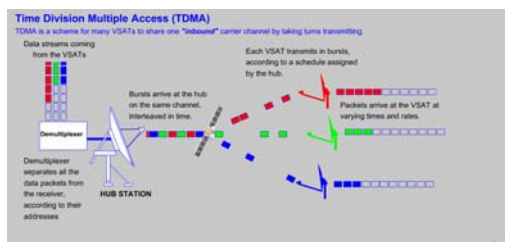
GVF promotes its Certified VSAT Installers – and the companies they serve – by including them in the GVF Certified Installer Database at [www.gvf.org](http://www.gvf.org), the number-one Web resource for the communications industry. GVF also promotes the Certified Installers and their companies to key customer groups, including the oil & gas sector, automotive, retail, disaster recovery, government & military, rural development, and many other client bases throughout the world.

### Now Available: On-line & On-site Training

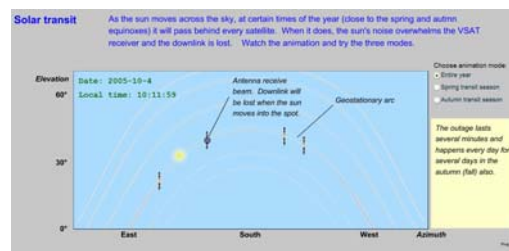
The GVF VSAT Installation & Maintenance Training Course consists of three levels. The Levels 1, 2, and 3i (iDirect) can be taken online at [www.gvf.org](http://www.gvf.org), where live animations clarify complex concepts. Hands-on skills can be practiced with realistic interactive simulations in more than 250 learning pages. All that is needed is Internet access and a computer with the free Flash player installed. Trainees can take advantage of:

- Numerically accurate, interactive simulators
- Access any time, 24/7
- Learning at their own pace
- Review of the materials at any time
- Ability to check their knowledge with quizzes
- On-line tests with instant results
- Printing of Certificate upon course completion
- Access to the reference materials library
- Communication with instructors and other students through built-in bulletin board and messaging.

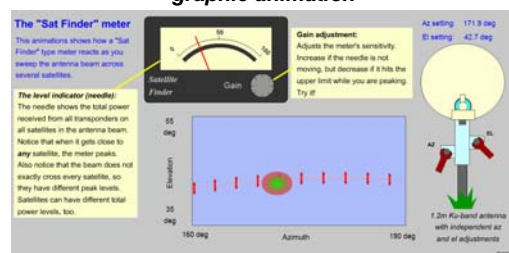
**Register today on-line** and begin the Certification process with Visa/MasterCard at [www.gvf.org](http://www.gvf.org). Upon completion of the interactive on-line Level 1 and Level 2 Courses, trainees can proceed to an on-line or on-site Level 3 class followed by an on-site hands-on skills test, which are delivered worldwide.



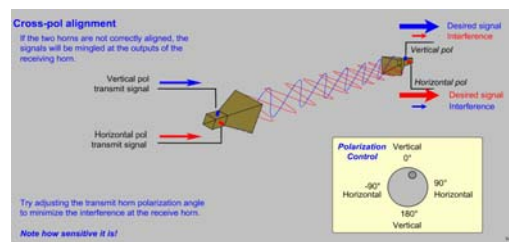
**Learn how TDMA, DAMA, and other access methods work with animated illustrations**



**Visualize the process of solar transit with this graphic animation**



**Practice your dish pointing skills with the hands-on simulator.**



**Understand cross-polarized signal separation by experimenting with antenna alignment**

## Level 1: Introduction to VSAT Technology

An overview of satellite communications, with emphasis on VSAT applications, for technicians, engineers, managers, and IT professionals. This course serves as the first of the three required levels for GVF VSAT Installer Certification.

Contains approximately 100 animated & interactive pages, requiring 5-10 hours study. Includes review quizzes and final test. Students may download and keep the GVF VSAT Installation and Maintenance Handbook, Volume 1.

Contents: 1. About the Global VSAT Forum; 2. Communications technologies; 3. Satellite communications and spacecraft; 4. Orbits 5. Dish pointing concepts; 6. Footprints; 7. Electromagnetic waves and frequencies; 8. Access methods; 9. Earth stations and VSAT terminals; 10. VSAT networks; 11. Final Test.

## Level 2: VSAT Installation Fundamentals

Fundamental knowledge and skills that all VSAT installers need for high-quality, interference-free installations. Animation and simulator-based interactivity bring technical concepts to life.

Contains over 180 animated & interactive pages, requiring 15-30 hours study. Includes review quizzes and final test. Students may download and keep the GVF VSAT Installation and Maintenance Handbook, Volumes 1 and 2.

Contents: 1. GVF VSAT Training; 2. Signals and Noise; 3. Antennas; 4. Propagation; 5. Modulation; 6. Satellite Links; 7. Polarization; 8. VSAT equipment; 9. Site survey and planning; 10. Installing the equipment; 11. Grounding; 12. Antenna az-el pointing; 13. Cross-pol alignment; 14. Carrier lineup and link test; 15. Data interface concepts; 16. Review of the installation process; 17. Troubleshooting and maintenance; 18. Final Test.

**Take the free  
interactive guided tour at  
[www.satprof.com](http://www.satprof.com)**

## Level 3S: Advanced VSAT Remote Terminal Installation

A full-day classroom session covering the details of installing SCPC and other stand-alone VSAT terminals. This course serves as the final level for GVF Advanced VSAT Installer Certification. Students may download and keep the GVF VSAT Installation and Maintenance Handbook, Volumes 1, 2, and 3.

Contents: 1. Site survey and preparation; 2. Calculating, measuring and working with a clear line of site, azimuth, & elevation; 3. Frequencies, local oscillators, and translation; 4. Equipment assembly, equipment configuration and parameters; 5. Grounding and lightning protection; 6. Bringing up the carrier and operating the VSAT; 7. Using a spectrum analyzer. 8. Applying measurements and calculations and identifying the satellite and the carrier; 9. Commissioning the service with the satellite provider; 10. Locking the equipment and finalizing the installation; 11. User acceptance; 12. Final test (given on-line for immediate results).

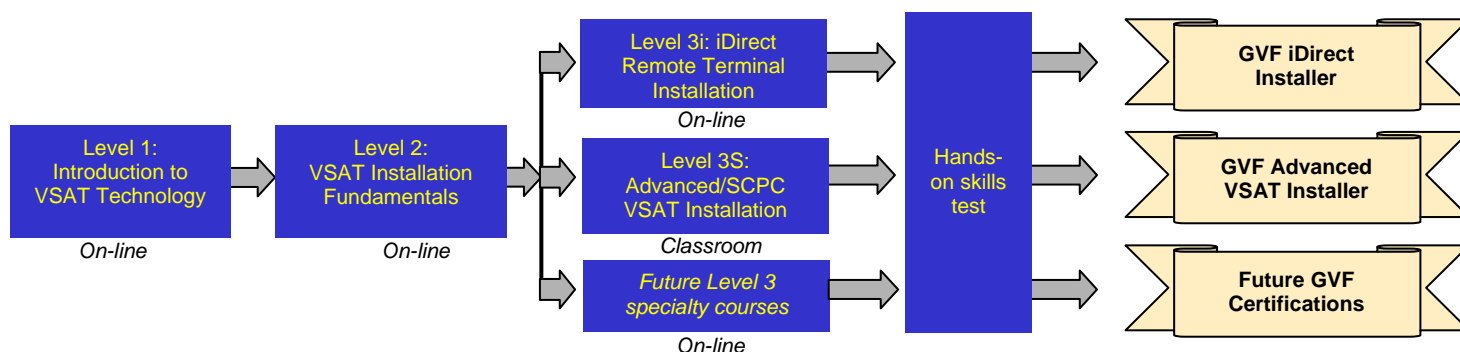
## Level 3i: iDirect Remote Terminal Installation

Factory-authorized training in the detailed knowledge and skills required for installation of iDirect INFINITI series remote VSAT terminals. Animation and simulator-based interactivity are used throughout the course to explain critical skills and concepts. This course is required for GVF-iDirect VSAT Installer Certification.

Contains over 200 animated & interactive pages, requiring 15-40 hours study. Includes review quizzes and final test. Students may download and keep the exclusive SatProf "Field Handbook for iDirect," in addition to various iDirect manuals and guides.

Contents: 1. Introduction; 2. Working with customers and iDirect; 3. iDirect Network Architecture; 4. iDirect Remote Equipment Overview; 5. Files and Parameter Downloads; 6. iSite; 7. Transmitter Distortion Concepts; 8. Installation Procedure overview; 9. Installation Step 1 (Preparation); 10. Installation Step 2 (Outdoor eqpt assembly); 11. Installation Step 3 (Installing the IFL); 12. Installation Step 4 (Installing the IDU); 13. Installation Step 5 (Receive signal pointing); 14. Installation Step 6 (Uplink alignment); 15. Installation Step 7 (Joining the network); 16. Installation Step 8 (Finishing the job); 17. Grounding and Safety; 18. Troubleshooting; 19. Advanced topics; 20. Final test.

## Certification course structure



**Global VSAT Forum**  
The association of the  
global VSAT industry.  
[www.gvf.org](http://www.gvf.org)

**Registration:** <http://gvf.coursehost.com>

**Volume and VAR inquiries:**  
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**+1 (202) 626-6881**

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