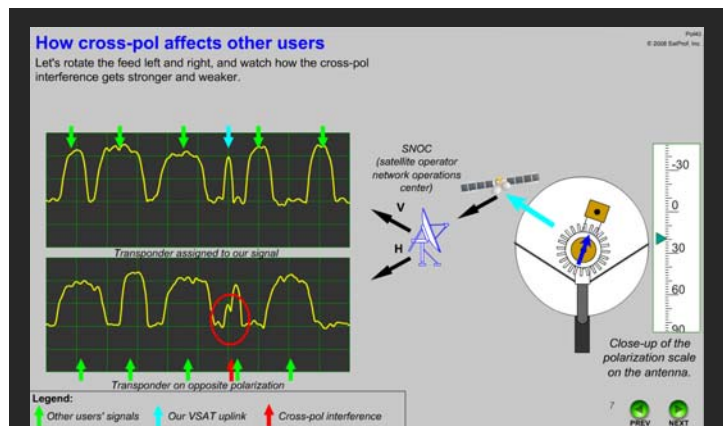


Online interactive course GVF 510

Core Skills for VSAT Installers

Improper installation technique is a major cause of interference, which degrades satellite transponder performance for all users. Developed in coordination with major satellite operators, GVF 510 teaches technicians the correct way to point an antenna, align cross pol, attach connectors, and decommission terminals – four leading causes of avoidable interference.

As the first step towards GVF VSAT Installer Certification, GVF 510 teaches and evaluates the core skills that all VSAT field technicians must have – regardless of the type of equipment they install.



Interactive real-time cross-pol simulation allows field technicians to practice their feed pol alignment skills and to see for the first time what NOC technicians see.

The full 3-D interactive antenna simulator, with operating meter and compass, teaches antenna pointing and evaluates real-world pointing skill.

Students explore fundamental concepts such as latitude, longitude, and orbit position with interactive, 3D experimenters.



Global VSAT Forum
The association of the global satellite industry.

Visit online:
www.gvf.org



SatProf, Inc.
Animated, interactive technically-accurate online training for satellite professionals.

Visit online:
www.satprof.com

GVF Certification

GVF's award-winning VSAT Installation Certification training program is delivered via a combination of online, interactive, simulator-driven training modules developed by SatProf, Inc. (www.satprof.com) and formal hands-on skills testing, all managed through the GVF training portal at <http://gvf.coursehost.com>. Hands-on skills testing and supplementary classroom sessions are supported by GVF Instructors and Regional Training Centers located in every major region of the world.

GVF 510 Course Specifications

Summary: Core skills required by all fixed VSAT installers for accurate antenna alignment and prevention of major sources of uplink interference.

Certification: Students who pass this course and the GVF Basic Hands On Skills Test will receive the GVF Basic VSAT Installer Certification. This course is also required as a pre-requisite for the GVF Advanced VSAT Installer and all GVF Specialist certifications.

Contents:

1. Learning system orientation
2. Course introduction, including review of GVF Certification requirements.
3. VSAT Hardware, with a review of the key components found in all satellite terminals.
4. Cables and connectors, including animated instruction on cable preparation and crimp and compression connector attachment.
5. Selecting a site, including 3-D interactive animations of latitude, longitude, and satellite orbits.
6. Polarization theory, with 3-D animation of polarization angles and interactive exercises in pre-setting feed rotation.
7. Finding the satellite, with tutorials and practice on a full 3-D interactive VSAT antenna simulator with working signal meter.
8. Accurate peaking, including tutorial and 3-D simulator practice of the beam balance method for preventing adjacent satellite interference.
9. Cross-pol alignment, with tutorials covering three different methods and real-time simulated NOC co- and cross-pol transponder spectrums.
10. Decommissioning and equipment faults, including the key steps for preventing accidental interference from a deactivated terminal.

Audience: All installers, field technicians, and engineers who may be responsible for activating any type of VSAT terminal.

Duration: Approximately 200 pages, requiring 5-15 hours study.

Delivery: Animated & interactive HTML/Flash, self-paced, on-line format. Requires Internet access while studying the course material. High speed access is preferred but is NOT required. Student's computer must be capable of running the Adobe Flash player, version 10.

Learning Objectives:

Understand why an improper VSAT installation can cause interference in the satellite. Assemble a basic VSAT. Correctly attach an F connector on an RG-6 cable. Understand latitude, longitude, satellite position, azimuth, elevation, pol angle. Aim the antenna towards the approximate satellite position based on local lat, long, and satellite long. Preset feed pol angle. Find the correct satellite using a typical meter. Point a small antenna accurately enough to minimize adjacent satellite interference. Adjust feed pol angle for best cross pol using uplink test, receive null balance, and inclinometer methods. Correctly decommission a VSAT to prevent it from making interference.

Tests: 10 quizzes, 1 final Exam, 3 simulator-based skills assessments.

Reference materials included: GVF Quick Reference Sheet for satellite field technicians; extensive glossary.



Global VSAT Forum
The association of the
global VSAT industry.
www.gvf.org

For further information, fees, schedules,
and to register for this and all GVF
courses, visit the GVF Training Portal at
<http://gvf.coursehost.com>

Or contact us at
gvfsupport@satprof.com



SatProf, Inc.
Animated, interactive, technically-
accurate on-line training for
satellite professionals.
www.satprof.com