

Online interactive course
GVF 503H

Hughes Remote Terminal Installation

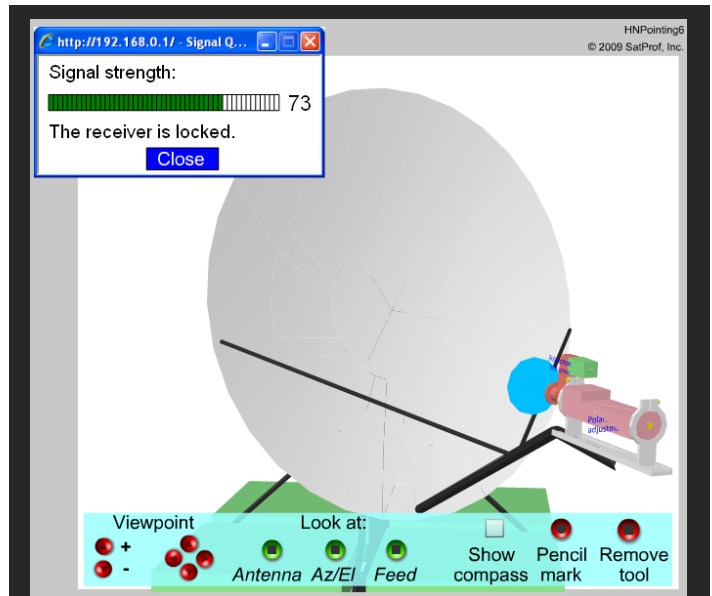
Advanced Hughes-Specific Training

Learn key aspects of how to install, commission, operate, and troubleshoot a Hughes HN and HX series Remote Terminals through this online, self-paced, 3-D animated, highly interactive, simulator-driven course. Topics covered include spacelink access methods, remote hardware overview, approved IFL cables and connectors, web interface, commissioning processes, antenna pointing, and troubleshooting steps and tools.

This course is appropriate for all installers and field technicians who may be responsible for activating Hughes terminals, as well as support staff who interact with field technicians or those that simply need a solid introduction to the Hughes HN and HX networks.

Certification

On-line certification training endorsed by Hughes for non-U.S. technicians is available exclusively from the Global VSAT Forum. Students who complete GVF503H along with the prerequisite online fundamentals courses and the GVF Hands On Skills Test will receive the Hughes-endorsed GVF Hughes Remote Terminal Installation Specialist Certification and are eligible to be listed in GVF's public Certified Installers database.



Practice dish pointing skills with the Hughes-specific 3-D interactive hands-on simulator.

Automatic Cross-Pol (ACP)
In Hughes HN Automatic Cross-Pol (ACP) testing, measurements are made in essentially the same way as in manual cross-pol testing, except that the functions of the NCC and SNOG technicians are automated. Click **NEXT** to learn more.

Use real-time spectrum analyzers to learn the processes for manual and automatic cross-pol alignment.

Learn how to configure an HN or HX terminal with animated walk-throughs of the setup screens.



Global VSAT Forum
The association of the global satellite industry.

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

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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 www.gvf.org/training. 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 503H Course Specifications

Summary: Intensive Hughes specific training covering Hughes HN and HX* network theory and step-by-step remote terminal installation and commissioning procedures. Animation and simulator-based interactivity are used throughout the course to explain critical skills and concepts.

Certification: Students who pass this course and hold GVF Advanced VSAT Installer Certification will receive the GVF Hughes HN Remote Terminal Installer Specialist Certification.

Prerequisites: GVF 510, 520, and 521, or GVF 501 and 502.

Duration: Contains over 200 animated & interactive pages, requiring 5-15 hours study. Includes review quizzes and final test.

Reference materials included: Students may download and keep the exclusive SatProf "Hughes Terminal Installation Handbook," in addition to various Hughes manuals and guides.

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.

Contents:

1. Learning system orientation
2. Course introduction
3. Hughes HN/HX system architecture
4. Remote equipment overview
5. IFL cables and connectors
6. Basic web user interface
7. Advanced web user interface
8. Commissioning
9. Antenna pointing technique
10. Cross-pol adjustment technique
11. Troubleshooting

Learning Objectives:

1. Understand how the Hughes HN/HX network works
2. Compare different models of HN and HX IDU's and radios
3. Identify and assemble all components in an HN and HX terminal
4. Know what external user equipment can be connected to an HN or HX terminal
5. Configure and activate an HN or HX terminal using Satellite-Based Configuration, with or without Automatic Cross Pol testing
6. Manually configure and activate an HN or HX terminal
7. Find and accurately point a typical antenna in an HN or HX terminal
8. Accurately set cross-pol using three different methods
9. Troubleshoot common HN and HX installation problems

** Initial course release covers installation of all HN terminals and HX terminals using saturated transmit outdoor units. Installation of HX terminals using linear ODUs will be added soon at no charge to existing students.*



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
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