

GVF TRAINING

GVF TRAINING AND CERTIFICATION PROGRAM

GVF's award-winning
program, 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 curriculum can
be integrated with your
organization's own
online and classroom
training on a custom
portal.

WHY CERTIFICATION AND ACCREDITATION?

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

GVF Knowledge Center Membership

GVF courses provide on-line, self-paced learning for satellite communications professionals, supplemented by Hands-On Skills Tests. These lead to **globally-recognized certifications** for individuals, and **accreditations for organizations**.

Knowledge Center Memberships are available by annual subscription via:

- ◆ Individual subscription
- ◆ Bulk order
- ◆ Site license (for companies and other organizations)

Become a Knowledge Center Member

- ◆ For only **\$348/year**, members get access to over \$5,000-worth of technical training.
- ◆ Join **over 13,000 VSAT professionals worldwide** who have taken GVF's globally-recognized training.
- ◆ Gain skills and confidence using **realistic simulations** of VSAT equipment.
- ◆ Get **industry-recognized GVF certifications** that reinforce your professionalism and credibility.
- ◆ Work at **your own pace**, from **anywhere** in the world.

What makes our training different?

- ◆ Courses are self-paced, available 24 hours/day.
- ◆ Automatic course and prerequisite linking for certification management.
- ◆ Registration is self-service or by order.
- ◆ Dedicated student support staff.
- ◆ Requires only a moderate-speed Internet connection and browser with Flash player.
- ◆ Simulator skills assessments connect directly to learning system student scores.

What are our students saying?

"Very good learning course, well presented, easy to learn." J.B. March 2017

"**Impressive and excellent contents & learning material. Simulation techniques was good... Even after 10 years of industry experience I learnt new things.**" M.S. March 2017

"It was an amazing source to get knowledge of VSAT." T.R. March 2017

"**Easy to comprehend due to all of the visual aids - terrific course.**" D.G. March 2017

"Course very well organized. Congratulations." O.N. Feb 2017

"**Excellent, really I appreciated the way of learning. Thanks a lot.**" A.B. Feb 2017



Exercise: az-el pointing start-to-finish

You must **preset the pol**, find the satellite, perform the initial az/el peaking, final beam-balance pointing, and tighten all az/el locks.

Your location is 94 deg W, 32 deg N. The satellite is at 95 deg W. The VSAT will use H downlink polarization. Pointing angles from your look angle calculator: True azimuth = 181, Elevation = 52, Polarization = 1.

When you do the fine azimuth and elevation beam-balance peaking steps, you must fill in the following blanks:

Reference level:

Fine azimuth:
Full span turns count: whole turns + 12ths
Half span turns count: whole turns + 12ths

Elevation:
Full span turns count: whole turns + 12ths
Half span turns count: whole turns + 12ths

When you have finished, or you need a hint, click the SHOW MY RESULTS button.

Balancing exercise

This antenna is unbalanced. You must balance it by attaching weights and then test for balance using the procedure you have learned.

When you have finished, or you need a hint, click the SHOW MY RESULTS button.

Passed horizontal balance test? No.
Passed vertical balance test? No.

Finding the satellite

We will learn how to confirm the identity of the satellite in the next tutorial. More than likely, you will initially hit the wrong one - especially if you are near the center of the GEO arc, or if your elevation is not very accurately calibrated. In that case, you would simply scan with AZ and EL to try different satellites.

Antenna position controller:
AZ 115.4
EL 41.2
POL +16.1

JOG SPEED SLOW

Antenna view: 1200.000 MHz, 50.00 dBm, 7MHz

Parkeed van direction and compass
Feed rotation (looking towards satellite)

Skills test: measure CW signal

Use the spectrum analyzer to measure the frequency and power of the CW signal.

Frequency: MHz
Power: dBm

Your answers must be accurate to +/- 10 kHz and +/- 1 dB. Be careful! You will need to zoom in to get enough frequency accuracy!

When you have finished, click the SUBMIT button.



VSAT Installation and Maintenance courses

- GVF510 Core Skills for VSAT Installers
- GVF520 Satcom Fundamentals
- GVF521 Practical Techniques for Installers

Marine VSAT operation, installation and maintenance courses

- GVF561 Fundamentals for Marine VSAT Operators
- GVF562E Operating the Sea Tel Marine VSAT
- GVF562E-IMA Operating the Sea Tel IMA Marine VSAT
- GVF503E Sea Tel Marine Terminal Installation2
- GVF503E-S1 Sea Tel IMA Marine Terminal Installation (supplement)
- GVF562N Operating the Intellian v100 and Similar Terminals
- GVF562T Operating the SpaceTrack 4000 Marine VSAT
- GVF503T SpaceTrack 4000 Marine VSAT Installation2

Mobile, SNG, and broadcast courses

- GVF530 Core Skills for Mobile Satellite Terminal Operators
- GVF531 Access Procedure Skills
- GVF532 Core Uplinking Skills

General and Fundamentals courses

- GVF500 Introduction to Satellite Communications
- GVF505 RF and DC Theory for Satellite Systems
- GVF506 Theory of Satellite TV Systems
- GVF522 Spectrum Analyzer Theory

Specialized courses

- GVF514 VSAT Installation with Satmotion Pocket
- GVF503i iDirect Remote Terminal Installation
- GVF503G Gilat SkyEdge II VSAT Installation
- GVF811 Carrier ID Principles and Operation
- O3b731 O3b Networks Overview
- GVF 523 Operating the R&S FSH4 spectrum analyzer

Certifications and certification renewal exams

- GVF-CERT-SPB Basic Satcom Professional
- GVF-CERT-SPA Advanced Satcom Professional
- GVF-CERT-SPHN Satcom Professional: Hughes Specialist
- GVF-CERT-SPID Satcom Professional iDirect Specialist
- GVF-CERT-SPSE Satcom Professional: Gilat SkyEdge II Specialist
- GVF-CERT-MSOE Marine Satcom Operator: Sea Tel Specialist
- GVF-CERT-MSOE-IMA Marine Satcom Operator: Sea Tel IMA Specialist
- GVF-CERT-MSPE Marine Satcom Professional: Sea Tel Specialist
- GVF-CERT-MSPT Marine Satcom Professional: SpaceTrack 4000 Specialist
- GVF-CERT-MSON Marine Satcom Operator: Intellian Specialist
- GVF-CERT-BAPO Basic Auto Point Operator (online exam)
- GVF-CERT-GAPO General Auto Point Operator (online exam)
- GVF-CERT-BTO Basic Technical Operator (online exam)
- GVF-CERT-ATO Advanced Technical Operator (online exam)
- GVF-CERT-TOPC Satellite Operations Center and Teleport Technician

Annual subscription also includes access to the Experts Forum

Instructors, experts, and the satcom community answer your questions in the Experts' Forum.

Notes:

- Some certification exams are only available after pre-requisites are completed.
- Additional training courses are available for separate purchase.
- GVF offers various discounts for developing country and NGO students, bulk orders, site licenses, and GVF Member companies.